



September 05, 2012

Brad Davis  
Zia Engineering & Environmental  
755 S Telshor Blvd Ste F-201  
Las Cruces, NM 88011  
TEL: (575) 993-6824  
FAX (575) 532-1587  
RE: Rhodes Canyon

Order No.: 1208206

Dear Brad Davis:

DHL Analytical received 4 sample(s) on 8/22/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont", is written over a white background.

John DuPont  
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-12-8 & DoD ELAP #ADE-1416 v2



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755 S. Tebitor Blvd. Ste. F-201  
 Las Cruces, NM 88011  
 575-532-1526 u  
 575-532-1587 f

#120820e

### CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.		PROJECT NAME			NO. OF CONTAINERS	ANALYSIS REQUESTED								REMARKS
SAMPLER'S SIGNATURE						Total Pb	GRO	VOCs	SVOCs	Alkalinity	pH	TDS	Sulfate	
DATE	TIME	SAMPLE ID	MATRIX	LAB NO.										
Rhodes Canyon														
Bradley T. Davis														
01	8-21-12	1150	RCRC-0114-RMW-001-0812	Water	10	X	X	X	X	X	X	X		
	8-21-12	1150	RCRC-0114-RMW-001-mj/msd	Water	10	X	X	X	X	X	X	X	matrix spike/duplicate	
02	8-21-12	1310	RCRC-0114-RMW-003-0812	Water	10	X	X	X	X	X	X	X		
03	8-21-12	1415	RCRC-0114-RMW-006-0812	Water	10	X	X	X	X	X	X	X		
04	8-21-12	1415	RCRC-0114-RMW-006-TB	Water	2			X					Trip Blank	

PROJECT INFORMATION	SAMPLES RECEIVED	400	1. RELINQUISHED BY: (SIGNATURE) Bradley T. Davis	2. RELINQUISHED BY: (SIGNATURE) [Signature]	3. RECEIVED BY LAB: (SIGNATURE)
PROJECT MANAGER	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Bradley T. Davis	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID NO.	CHAIN OF CUSTODY SEALS	400	RECEIVED BY: (SIGNATURE) [Signature]	RECEIVED BY: (SIGNATURE) [Signature]	(COMPANY)
MA: FedEX	GOOD CONDITION/CILLED	310	(TIME/DATE) 8/21/12 1700	(TIME/DATE) 8/22/12 0900	(TIME/DATE)
	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS/COMMENTS: 830		

From: (505) 532-1526  
Z a Engineering

Origin ID: LRUA



755 S Telshor Blvd.  
Suite Q-201  
Las Cruces, NM 88011

Ship Date: 21AUG12  
Act/Wgt: 65.0 LB  
CAD: 102207640/NET3300

Delivery Address Bar Code



SHIP TO: (512) 388-8222

BILL SENDER

John Dupont  
DHL Analytical  
2300 DOUBLE CREEK DR

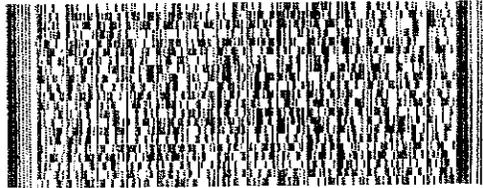
Ref # Brad  
Invoice #  
PO # FWSE-09-015 Task 035  
Dept #

ROUND ROCK, TX 78664

WED - 22 AUG A1  
PRIORITY OVERNIGHT

TRK# 7987 9460 7480

0201



XH BSMA

78664  
TX-US  
AUS



IF S  
BODY SEA  
21-12  
J. Davis

EAL  
OPEN  
REC  
Quality Environmental Containers  
800-255-3950 • 304-255-3900  
IF S  
IS BR  
IECK  
ORE

DHL Analytical

Sample Receipt Checklist

Client Name Zia Engineering & Environmental

Date Received: 8/22/2012

Work Order Number 1208206

Received by JB

Checklist completed by: [Signature] 8/22/2012

Reviewed by [Initials] 8/22/2012

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes [checked] No [ ] Not Present [ ]
Custody seals intact on shipping container/cooler? Yes [checked] No [ ] Not Present [ ]
Custody seals intact on sample bottles? Yes [ ] No [ ] Not Present [checked]
Chain of custody present? Yes [checked] No [ ]
Chain of custody signed when relinquished and received? Yes [checked] No [ ]
Chain of custody agrees with sample labels? Yes [checked] No [ ]
Samples in proper container/bottle? Yes [checked] No [ ]
Sample containers intact? Yes [checked] No [ ]
Sufficient sample volume for indicated test? Yes [checked] No [ ]
All samples received within holding time? Yes [checked] No [ ]
Container/Temp Blank temperature in compliance? Yes [checked] No [ ] 3.1 °C
Water - VOA vials have zero headspace? Yes [checked] No [ ] No VOA vials submitted [ ]
Water - pH acceptable upon receipt? Yes [checked] No [ ] Not Applicable [ ]

Adjusted? NO Checked by [Signature]

Any No response must be detailed in the comments section below.

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

# DHL Analytical, Inc.

## Laboratory Review Checklist: Reportable Data

<b>Project Name: Rhodes Canyon</b>		<b>Date: 9/5/2012</b>					
<b>Reviewer Name: Angie O'Donnell</b>		<b>Laboratory Work Order: 1208206</b>					
<b>Prep Batch Number(s): See Prep Dates Report</b>		<b>Run Batch: See Analytical Dates Report</b>					
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>R1</b>	OI	<b>Chain-of-Custody (C-O-C)</b>					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				<b>R1-01</b>
		2) Were all departures from standard conditions described in an exception report?			X		
<b>R2</b>	OI	<b>Sample and Quality Control (QC) Identification</b>					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
<b>R3</b>	OI	<b>Test Reports</b>					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
<b>R4</b>	O	<b>Surrogate Recovery Data</b>					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			<b>R4-02</b>
<b>R5</b>	OI	<b>Test Reports/Summary Forms for Blank Samples</b>					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
<b>R6</b>	OI	<b>Laboratory Control Samples (LCS):</b>					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			<b>R6-04</b>
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
<b>R7</b>	OI	<b>Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data</b>					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			<b>R7-03</b>
		4) Were MS/MSD RPDs within laboratory QC limits?		X			<b>R7-04</b>
<b>R8</b>	OI	<b>Analytical Duplicate Data</b>					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
<b>R9</b>	OI	<b>Method Quantitation Limits (MQLs):</b>					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
<b>R10</b>	OI	<b>Other Problems/Anomalies</b>					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

**DHL Analytical, Inc.**

**Laboratory Review Checklist (continued): Supporting Data**

<b>Project Name: Rhodes Canyon</b>		<b>Date: 9/5/2012</b>					
<b>Reviewer Name: Angie O'Donnell</b>		<b>Laboratory Work Order: 1208206</b>					
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial Calibration (ICAL)</b>					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
<b>S2</b>	<b>OI</b>	<b>Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB)</b>					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			<b>S2-02</b>
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
<b>S3</b>	<b>O</b>	<b>Mass Spectral Tuning</b>					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
<b>S4</b>	<b>O</b>	<b>Internal Standards (IS)</b>					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
<b>S5</b>	<b>OI</b>	<b>Raw Data (NELAC section 1 appendix A glossary, and section 5.12)</b>					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				<b>S5-02</b>
<b>S6</b>	<b>O</b>	<b>Dual Column Confirmation</b>					
		1) Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively Identified Compounds (TICs)</b>					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) Results</b>					
		1) Were percent recoveries within method QC limits?	X				
<b>S9</b>	<b>I</b>	<b>Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions</b>					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
<b>S10</b>	<b>OI</b>	<b>Method Detection Limit (MDL) Studies</b>					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
<b>S11</b>	<b>OI</b>	<b>Proficiency Test Reports</b>					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards Documentation</b>					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/Analyte Identification Procedures</b>					
		1) Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of Analyst Competency (DOC)</b>					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/Validation Documentation for Methods (NELAC Chap 5)</b>					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory Standard Operating Procedures (SOPs)</b>					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

# Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

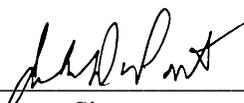
- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

**Release Statement:** I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

John DuPont – General Manager

Scott Schroeder – Technical Director

  
\_\_\_\_\_  
Signature

09/05/12  
\_\_\_\_\_  
Date

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Lab Order:** 1208206

**CASE NARRATIVE**

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Method SW8270C - Semivolatile Organic (Some compounds are not NELAC Certified)  
Method SW8260C - Volatile Organic  
Method SW6020 - Metals Analysis  
Method M8015V - GRO Analysis  
Method M4500-H+ B - pH of a Water  
Method E300 - Anions by IC  
Method M2320 B - Alkalinity  
Method M2540C - Total Dissolved Solids

**Exception Report R1-01**

The samples were received and log-in performed on 8/22/2012. A total of 4 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

**Exception Report R4-02**

For Semivolatiles Analysis, the recovery of surrogates 2,4,6-Tribromophenol and Nitrobenzene-d5 for Sample RCRC-0114-RMW-001-0812 were slightly above the method control limits. These are flagged accordingly in the Analytical Data Report. The remaining surrogates for this sample are within method control limits. No further corrective action was taken.

**Exception Report R6-04**

For Semivolatiles Analysis, the recoveries of two compounds for the Laboratory Control Spike (LCS-53545) were slightly above the method control limits. These are flagged accordingly in the QC Summary report. These compounds were within method control limits in the associated ICV or were nondetect in the associated samples. No further corrective action was taken.

**Exception Report R7-03**

For Volatiles Analysis, the recovery of 2-Chloroethylvinylether for the Matrix Spike and Matrix Spike Duplicate (1208206-01 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary report. These compounds are within method control limits in the associated LCS. The reference sample selected for the QC sample was from this workorder. No further corrective action was taken.

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**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Lab Order:** 1208206

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## CASE NARRATIVE

For Semivolatiles Analysis, the recoveries and RPD's of a few compounds for the Matrix Spike and Matrix Spike Duplicate (1208206-01 MS/MSD) was outside of the method control limits. These are flagged accordingly in the QC Summary report. This compound is within method control limits in the associated LCS. The reference sample selected for the QC sample was from this workorder. No further corrective action was taken.

### Exception Report S2-02

For Volatiles Analysis, the recovery of Bromomethane for the Initial Calibration Verification (ICV-120827) was slightly below the method control limits specified in SW8260C (80-120% recovery). This is flagged accordingly in the QC Summary report. This compound was within method control limits in the associated LCS and all samples analyzed in this batch are non-detect for this compound so there is no adverse affect on the data. No further corrective action was taken.

For Semivolatiles Analysis, the recoveries of three compounds, analyzed on 8/28/2012, for the Initial Calibration Verification (ICV-120828) were outside of the method control limits specified in SW8270C (80-120% recovery). These are flagged accordingly in the QC Summary report. These compounds were within method control limits in the associated LCS or were non-detect in the associated samples so there is no adverse affect on the data. No further corrective action was taken.

### Exception Report S5-02

For Semivolatile Analysis, some samples and/or standards were manually integrated. Please refer to the manual integration tables after the sequence reports for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

DHL Analytical received the Project RFQ from the client on 12/29/09. Completed RFQ returned to client via email on 1/07/2010. Purchase Order/Terms and Conditions received and signed and approved by both parties on 01/25/2010.

Brad Davis of Zia requested a bottle kit via email from Jennifer Barker of DHL on 7/27/2012. A DHL BottleKit #3499 sent on 8/13/2012 via Lonestar Overnight, to arrive by 8/15/2012.

This sample delivery group arrived at DHL Analytical 8/22/2012. Sample summary sent via email from Log-in to client on 8/22/2012.

All hardcopies for the sample kit request, bill of lading for sample kit sent and login summary are kept in project folder.

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**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Lab Order:** 1208206

**Work Order Sample Summary**

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<b>Lab Smp ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Date Collected</b>	<b>Date Recved</b>
1208206-01	RCRC-0114-RMW-001-0812		08/21/12 11:50 AM	8/22/2012
1208206-02	RCRC-0114-RMW-003-0812		08/21/12 01:10 PM	8/22/2012
1208206-03	RCRC-0114-RMW-006-0812		08/21/12 02:15 PM	8/22/2012
1208206-04	RCRC-0114-RMW-006-TB		08/21/12 02:15 PM	8/22/2012

Lab Order: 1208206  
 Client: Zia Engineering & Environmental  
 Project: Rhodes Canyon

**PREP DATES REPORT**

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1208206-01A	RCRC-0114-RMW-001-0812	08/21/12 11:50 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	08/27/12 09:50 AM	53517
1208206-01B	RCRC-0114-RMW-001-0812	08/21/12 11:50 AM	Aqueous	SW5030C	Purge and Trap Water GC-Gas	08/23/12 11:24 AM	53499
1208206-01C	RCRC-0114-RMW-001-0812	08/21/12 11:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	08/27/12 08:55 AM	53525
1208206-01D	RCRC-0114-RMW-001-0812	08/21/12 11:50 AM	Aqueous	M2320 B	Alkalinity Preparation	08/22/12 10:30 AM	53471
	RCRC-0114-RMW-001-0812	08/21/12 11:50 AM	Aqueous	E300	Anion Preparation	08/22/12 09:44 AM	53464
	RCRC-0114-RMW-001-0812	08/21/12 11:50 AM	Aqueous	M4500-H+ B	pH Preparation	08/22/12 09:45 AM	53466
	RCRC-0114-RMW-001-0812	08/21/12 11:50 AM	Aqueous	M2540C	TDS Preparation	08/24/12 05:40 PM	53521
1208206-01E	RCRC-0114-RMW-001-0812	08/21/12 11:50 AM	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	08/28/12 06:54 AM	53545
	RCRC-0114-RMW-001-0812	08/21/12 11:50 AM	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	08/28/12 06:54 AM	53545
1208206-02A	RCRC-0114-RMW-003-0812	08/21/12 01:10 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	08/27/12 09:50 AM	53517
1208206-02B	RCRC-0114-RMW-003-0812	08/21/12 01:10 PM	Aqueous	SW5030C	Purge and Trap Water GC-Gas	08/23/12 11:24 AM	53499
1208206-02C	RCRC-0114-RMW-003-0812	08/21/12 01:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	08/27/12 08:55 AM	53525
1208206-02D	RCRC-0114-RMW-003-0812	08/21/12 01:10 PM	Aqueous	M2320 B	Alkalinity Preparation	08/22/12 10:30 AM	53471
	RCRC-0114-RMW-003-0812	08/21/12 01:10 PM	Aqueous	E300	Anion Preparation	08/22/12 09:44 AM	53464
	RCRC-0114-RMW-003-0812	08/21/12 01:10 PM	Aqueous	M4500-H+ B	pH Preparation	08/22/12 09:45 AM	53466
	RCRC-0114-RMW-003-0812	08/21/12 01:10 PM	Aqueous	M2540C	TDS Preparation	08/24/12 05:40 PM	53521
1208206-02E	RCRC-0114-RMW-003-0812	08/21/12 01:10 PM	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	08/28/12 06:54 AM	53545
	RCRC-0114-RMW-003-0812	08/21/12 01:10 PM	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	08/28/12 06:54 AM	53545
1208206-03A	RCRC-0114-RMW-006-0812	08/21/12 02:15 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	08/27/12 09:50 AM	53517
1208206-03B	RCRC-0114-RMW-006-0812	08/21/12 02:15 PM	Aqueous	SW5030C	Purge and Trap Water GC-Gas	08/23/12 11:24 AM	53499

**Lab Order:** 1208206  
**Client:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon

**PREP DATES REPORT**

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1208206-03C	RCRC-0114-RMW-006-0812	08/21/12 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	08/27/12 08:55 AM	53525
1208206-03D	RCRC-0114-RMW-006-0812	08/21/12 02:15 PM	Aqueous	M2320 B	Alkalinity Preparation	08/22/12 10:30 AM	53471
	RCRC-0114-RMW-006-0812	08/21/12 02:15 PM	Aqueous	E300	Anion Preparation	08/22/12 09:44 AM	53464
	RCRC-0114-RMW-006-0812	08/21/12 02:15 PM	Aqueous	M4500-H+ B	pH Preparation	08/22/12 09:45 AM	53466
	RCRC-0114-RMW-006-0812	08/21/12 02:15 PM	Aqueous	M2540C	TDS Preparation	08/24/12 05:40 PM	53521
1208206-03E	RCRC-0114-RMW-006-0812	08/21/12 02:15 PM	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	08/28/12 06:54 AM	53545
	RCRC-0114-RMW-006-0812	08/21/12 02:15 PM	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	08/28/12 06:54 AM	53545
1208206-04A	RCRC-0114-RMW-006-TB	08/21/12 02:15 PM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	08/27/12 09:50 AM	53517

Lab Order: 1208206  
 Client: Zia Engineering & Environmental  
 Project: Rhodes Canyon

**ANALYTICAL DATES REPORT**

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1208206-01A	RCRC-0114-RMW-001-0812	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	53517	1	08/27/12 12:27 PM	GCMS7_120827A
1208206-01B	RCRC-0114-RMW-001-0812	Aqueous	M8015V	TPH Purgeable by GC - Water	53499	1	08/23/12 01:25 PM	GC4_120823A
1208206-01C	RCRC-0114-RMW-001-0812	Aqueous	SW6020	Trace Metals: ICP-MS - Water	53525	1	08/27/12 06:39 PM	ICP-MS2_120827B
1208206-01D	RCRC-0114-RMW-001-0812	Aqueous	M2320 B	Alkalinity	53471	1	08/22/12 10:51 AM	TITRATOR_120822B
	RCRC-0114-RMW-001-0812	Aqueous	E300	Anions by IC method - Water	53464	10	08/22/12 10:09 AM	IC_120822A
	RCRC-0114-RMW-001-0812	Aqueous	M4500-H+ B	pH	53466	1	08/22/12 10:10 AM	TITRATOR_120822A
	RCRC-0114-RMW-001-0812	Aqueous	M2540C	Total Dissolved Solids	53521	1	08/24/12 05:40 PM	WC_120824A
1208206-01E	RCRC-0114-RMW-001-0812	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	53545	1	08/29/12 01:18 AM	GCMS9_120828B
	RCRC-0114-RMW-001-0812	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	53545	1	08/28/12 11:25 PM	GCMS9_120828C
1208206-02A	RCRC-0114-RMW-003-0812	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	53517	1	08/27/12 12:52 PM	GCMS7_120827A
1208206-02B	RCRC-0114-RMW-003-0812	Aqueous	M8015V	TPH Purgeable by GC - Water	53499	1	08/23/12 01:50 PM	GC4_120823A
1208206-02C	RCRC-0114-RMW-003-0812	Aqueous	SW6020	Trace Metals: ICP-MS - Water	53525	1	08/27/12 06:51 PM	ICP-MS2_120827B
1208206-02D	RCRC-0114-RMW-003-0812	Aqueous	M2320 B	Alkalinity	53471	1	08/22/12 10:59 AM	TITRATOR_120822B
	RCRC-0114-RMW-003-0812	Aqueous	E300	Anions by IC method - Water	53464	10	08/22/12 10:51 AM	IC_120822A
	RCRC-0114-RMW-003-0812	Aqueous	M4500-H+ B	pH	53466	1	08/22/12 10:13 AM	TITRATOR_120822A
	RCRC-0114-RMW-003-0812	Aqueous	M2540C	Total Dissolved Solids	53521	1	08/24/12 05:40 PM	WC_120824A
1208206-02E	RCRC-0114-RMW-003-0812	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	53545	1	08/29/12 01:41 AM	GCMS9_120828B
	RCRC-0114-RMW-003-0812	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	53545	1	08/28/12 11:48 PM	GCMS9_120828C
1208206-03A	RCRC-0114-RMW-006-0812	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	53517	1	08/27/12 01:16 PM	GCMS7_120827A
1208206-03B	RCRC-0114-RMW-006-0812	Aqueous	M8015V	TPH Purgeable by GC - Water	53499	1	08/23/12 02:16 PM	GC4_120823A

**Lab Order:** 1208206  
**Client:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon

**ANALYTICAL DATES REPORT**

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1208206-03C	RCRC-0114-RMW-006-0812	Aqueous	SW6020	Trace Metals: ICP-MS - Water	53525	1	08/27/12 06:57 PM	ICP-MS2_120827B
1208206-03D	RCRC-0114-RMW-006-0812	Aqueous	M2320 B	Alkalinity	53471	1	08/22/12 11:04 AM	TITRATOR_120822B
	RCRC-0114-RMW-006-0812	Aqueous	E300	Anions by IC method - Water	53464	10	08/22/12 11:03 AM	IC_120822A
	RCRC-0114-RMW-006-0812	Aqueous	M4500-H+ B	pH	53466	1	08/22/12 10:15 AM	TITRATOR_120822A
	RCRC-0114-RMW-006-0812	Aqueous	M2540C	Total Dissolved Solids	53521	1	08/24/12 05:40 PM	WC_120824A
1208206-03E	RCRC-0114-RMW-006-0812	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	53545	1	08/29/12 02:04 AM	GCMS9_120828B
	RCRC-0114-RMW-006-0812	Aqueous	SW8270C	Semivolatiles by GC/MS - Water	53545	1	08/29/12 12:10 AM	GCMS9_120828C
1208206-04A	RCRC-0114-RMW-006-TB	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	53517	1	08/27/12 01:40 PM	GCMS7_120827A

# DHL Analytical

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-001-0812  
**Lab ID:** 1208206-01  
**Collection Date:** 08/21/12 11:50 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TPH PURGEABLE BY GC - WATER</b>		<b>M8015V</b>			Analyst: <b>DEW</b>		
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	08/23/12 01:25 PM
Surr: Tetrachlorethene	103	0	74-138		%REC	1	08/23/12 01:25 PM
<b>TRACE METALS: ICP-MS - WATER</b>		<b>SW6020</b>			Analyst: <b>AJR</b>		
Lead	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 06:39 PM
<b>SEMIVOLATILES BY GC/MS - WATER</b>		<b>SW8270C</b>			Analyst: <b>DO</b>		
1,2,4,5-Tetrachlorobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
1,2-Diphenylhydrazine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
1-Chloronaphthalene	<0.000200	0.000200	0.000800	N	mg/L	1	08/28/12 11:25 PM
1-Methylnaphthalene	<0.000200	0.000200	0.000800	N	mg/L	1	08/29/12 01:18 AM
1-Naphthylamine	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
2,4,5-Trichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2,4,6-Trichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2,4-Dichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2,4-Dimethylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2,4-Dinitrophenol	<0.00100	0.00100	0.00400		mg/L	1	08/29/12 01:18 AM
2,4-Dinitrotoluene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2,6-Dichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2,6-Dinitrotoluene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2-Chloronaphthalene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2-Chlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2-Methylnaphthalene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2-Methylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2-Naphthylamine	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
2-Nitroaniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2-Nitrophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
2-Picoline	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
3,3'-Dichlorobenzidine	<0.00100	0.00100	0.00400		mg/L	1	08/29/12 01:18 AM
3-Methylcholanthrene	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
3-Nitroaniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
4,6-Dinitro-2-methylphenol	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 01:18 AM
4-Aminobiphenyl	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
4-Bromophenyl phenyl ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
4-Chloro-3-methylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
4-Chloroaniline	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 01:18 AM
4-Chlorophenyl phenyl ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
4-Methylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
4-Nitroaniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

# DHL Analytical

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-001-0812  
**Lab ID:** 1208206-01  
**Collection Date:** 08/21/12 11:50 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILES BY GC/MS - WATER</b>		<b>SW8270C</b>			Analyst: <b>DO</b>		
4-Nitrophenol	<0.00100	0.00100	0.00400		mg/L	1	08/29/12 01:18 AM
7,12-Dimethylbenz(a)anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
Acenaphthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Acenaphthylene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Acetophenone	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Aniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Benzidine	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:18 AM
Benzo[a]anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Benzo[a]pyrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Benzo[b]fluoranthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Benzo[g,h,i]perylene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Benzo[k]fluoranthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Benzoic acid	0.0153	0.00200	0.00600		mg/L	1	08/29/12 01:18 AM
Benzyl alcohol	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 01:18 AM
Biphenyl	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Bis(2-chloroethoxy)methane	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Bis(2-chloroethyl)ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Bis(2-chloroisopropyl)ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Bis(2-ethylhexyl)phthalate	<0.00100	0.00100	0.00300		mg/L	1	08/29/12 01:18 AM
Butyl benzyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:18 AM
Carbazole	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Chrysene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Di-n-butyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:18 AM
Di-n-octyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:18 AM
Dibenz(a,j)acridine	<0.00100	0.00100	0.00400	N	mg/L	1	08/28/12 11:25 PM
Dibenz[a,h]anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Dibenzofuran	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Diethyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:18 AM
Dimethyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:18 AM
Dimethylphenethylamine	<0.00200	0.00200	0.00600		mg/L	1	08/28/12 11:25 PM
Diphenylamine	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
Ethyl methanesulfonate	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
Fluoranthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Fluorene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Hexachlorobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Hexachlorobutadiene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Hexachlorocyclopentadiene	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 01:18 AM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Zia Engineering & Environmental  
 Project: Rhodes Canyon  
 Project No:  
 Lab Order: 1208206

Client Sample ID: RCRC-0114-RMW-001-0812  
 Lab ID: 1208206-01  
 Collection Date: 08/21/12 11:50 AM  
 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILES BY GC/MS - WATER</b>		<b>SW8270C</b>			Analyst: <b>DO</b>		
Hexachloroethane	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Indeno[1,2,3-cd]pyrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Isophorone	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Methyl methanesulfonate	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
N-Nitrosodi-n-propylamine	<0.000100	0.000100	0.000800		mg/L	1	08/29/12 01:18 AM
N-Nitrosodimethylamine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
N-Nitrosodiphenylamine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
N-Nitrosopiperidine	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
Naphthalene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Nitrobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
p-Dimethylaminoazobenzene	<0.000200	0.000200	0.000800	N	mg/L	1	08/28/12 11:25 PM
Pentachlorobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Pentachloronitrobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
Pentachlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Phenacetin	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
Phenanthrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Phenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Pronamide	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:25 PM
Pyrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:18 AM
Pyridine	<0.000800	0.000800	0.00200		mg/L	1	08/29/12 01:18 AM
Surr: 2,4,6-Tribromophenol	128	0	42-124	S	%REC	1	08/29/12 01:18 AM
Surr: 2,4,6-Tribromophenol	108	0	42-124		%REC	1	08/28/12 11:25 PM
Surr: 2-Fluorobiphenyl	108	0	50-110		%REC	1	08/28/12 11:25 PM
Surr: 2-Fluorobiphenyl	102	0	50-110		%REC	1	08/29/12 01:18 AM
Surr: 2-Fluorophenol	82.8	0	20-110		%REC	1	08/28/12 11:25 PM
Surr: 2-Fluorophenol	74.5	0	20-110		%REC	1	08/29/12 01:18 AM
Surr: 4-Terphenyl-d14	120	0	51-135		%REC	1	08/28/12 11:25 PM
Surr: 4-Terphenyl-d14	120	0	51-135		%REC	1	08/29/12 01:18 AM
Surr: Nitrobenzene-d5	105	0	41-110		%REC	1	08/29/12 01:18 AM
Surr: Nitrobenzene-d5	114	0	41-110	S	%REC	1	08/28/12 11:25 PM
Surr: Phenol-d6	52.2	0	20-115		%REC	1	08/29/12 01:18 AM
Surr: Phenol-d6	54.4	0	20-115		%REC	1	08/28/12 11:25 PM
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>			Analyst: <b>KL</b>		
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

# DHL Analytical

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-001-0812  
**Lab ID:** 1208206-01  
**Collection Date:** 08/21/12 11:50 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>			Analyst: <b>KL</b>		
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 12:27 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 12:27 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 12:27 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	08/27/12 12:27 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 12:27 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	08/27/12 12:27 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:27 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:27 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:27 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:27 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:27 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	08/27/12 12:27 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:27 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM

<b>Qualifiers:</b>	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
	MDL Method Detection Limit	ND Not Detected at the Method Detection Limit
	RL Reporting Limit	S Spike Recovery outside control limits
	N Parameter not NELAC certified	

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-001-0812  
**Lab ID:** 1208206-01  
**Collection Date:** 08/21/12 11:50 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>		Analyst: <b>KL</b>			
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:27 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 12:27 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	08/27/12 12:27 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:27 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 12:27 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 12:27 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 12:27 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:27 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	08/27/12 12:27 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-120		%REC	1	08/27/12 12:27 PM
Surr: 4-Bromofluorobenzene	102	0	75-120		%REC	1	08/27/12 12:27 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	08/27/12 12:27 PM
Surr: Toluene-d8	102	0	85-120		%REC	1	08/27/12 12:27 PM
<b>ANIONS BY IC METHOD - WATER</b>		<b>E300</b>		Analyst: <b>JBC</b>			
Sulfate	1230	10.0	30.0		mg/L	10	08/22/12 10:09 AM
<b>ALKALINITY</b>		<b>M2320 B</b>		Analyst: <b>JBC</b>			
Alkalinity, Bicarbonate (As CaCO3)	106	10.0	20.0		mg/L	1	08/22/12 10:51 AM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L	1	08/22/12 10:51 AM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L	1	08/22/12 10:51 AM
Alkalinity, Total (As CaCO3)	106	10.0	20.0		mg/L	1	08/22/12 10:51 AM
<b>PH</b>		<b>M4500-H+ B</b>		Analyst: <b>JBC</b>			
pH	7.48	0	0		pH Units	1	08/22/12 10:10 AM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

# DHL Analytical

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-001-0812  
**Lab ID:** 1208206-01  
**Collection Date:** 08/21/12 11:50 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL DISSOLVED SOLIDS</b>		<b>M2540C</b>					Analyst: <b>JCG</b>
Total Dissolved Solids (Residue, Filterable)	5080	50.0	50.0		mg/L	1	08/24/12 05:40 PM

Qualifiers:			
*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-003-0812  
**Lab ID:** 1208206-02  
**Collection Date:** 08/21/12 01:10 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TPH PURGEABLE BY GC - WATER</b>		<b>M8015V</b>			Analyst: <b>DEW</b>		
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	08/23/12 01:50 PM
Surr: Tetrachlorethene	100	0	74-138		%REC	1	08/23/12 01:50 PM
<b>TRACE METALS: ICP-MS - WATER</b>		<b>SW6020</b>			Analyst: <b>AJR</b>		
Lead	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 06:51 PM
<b>SEMIVOLATILES BY GC/MS - WATER</b>		<b>SW8270C</b>			Analyst: <b>DO</b>		
1,2,4,5-Tetrachlorobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
1,2-Diphenylhydrazine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
1-Chloronaphthalene	<0.000200	0.000200	0.000800	N	mg/L	1	08/28/12 11:48 PM
1-Methylnaphthalene	<0.000200	0.000200	0.000800	N	mg/L	1	08/29/12 01:41 AM
1-Naphthylamine	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
2,4,5-Trichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2,4,6-Trichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2,4-Dichlorophenol	0.000260	0.000200	0.000800	J	mg/L	1	08/29/12 01:41 AM
2,4-Dimethylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2,4-Dinitrophenol	<0.00100	0.00100	0.00400		mg/L	1	08/29/12 01:41 AM
2,4-Dinitrotoluene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2,6-Dichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2,6-Dinitrotoluene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2-Chloronaphthalene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2-Chlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2-Methylnaphthalene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2-Methylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2-Naphthylamine	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
2-Nitroaniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2-Nitrophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
2-Picoline	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
3,3'-Dichlorobenzidine	<0.00100	0.00100	0.00400		mg/L	1	08/29/12 01:41 AM
3-Methylcholanthrene	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
3-Nitroaniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
4,6-Dinitro-2-methylphenol	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 01:41 AM
4-Aminobiphenyl	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
4-Bromophenyl phenyl ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
4-Chloro-3-methylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
4-Chloroaniline	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 01:41 AM
4-Chlorophenyl phenyl ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
4-Methylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
4-Nitroaniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

# DHL Analytical

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-003-0812  
**Lab ID:** 1208206-02  
**Collection Date:** 08/21/12 01:10 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILES BY GC/MS - WATER</b>		<b>SW8270C</b>			Analyst: <b>DO</b>		
4-Nitrophenol	<0.00100	0.00100	0.00400		mg/L	1	08/29/12 01:41 AM
7,12-Dimethylbenz(a)anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
Acenaphthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Acenaphthylene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Acetophenone	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Aniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Benzidine	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:41 AM
Benzo[a]anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Benzo[a]pyrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Benzo[b]fluoranthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Benzo[g,h,i]perylene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Benzo[k]fluoranthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Benzoic acid	0.0466	0.00200	0.00600		mg/L	1	08/29/12 01:41 AM
Benzyl alcohol	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 01:41 AM
Biphenyl	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Bis(2-chloroethoxy)methane	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Bis(2-chloroethyl)ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Bis(2-chloroisopropyl)ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Bis(2-ethylhexyl)phthalate	<0.00100	0.00100	0.00300		mg/L	1	08/29/12 01:41 AM
Butyl benzyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:41 AM
Carbazole	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Chrysene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Di-n-butyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:41 AM
Di-n-octyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:41 AM
Dibenz(a,j)acridine	<0.00100	0.00100	0.00400	N	mg/L	1	08/28/12 11:48 PM
Dibenz[a,h]anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Dibenzofuran	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Diethyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:41 AM
Dimethyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 01:41 AM
Dimethylphenethylamine	<0.00200	0.00200	0.00600		mg/L	1	08/28/12 11:48 PM
Diphenylamine	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
Ethyl methanesulfonate	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
Fluoranthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Fluorene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Hexachlorobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Hexachlorobutadiene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Hexachlorocyclopentadiene	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 01:41 AM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Zia Engineering & Environmental  
 Project: Rhodes Canyon  
 Project No:  
 Lab Order: 1208206

Client Sample ID: RCRC-0114-RMW-003-0812  
 Lab ID: 1208206-02  
 Collection Date: 08/21/12 01:10 PM  
 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILES BY GC/MS - WATER</b>		<b>SW8270C</b>			Analyst: <b>DO</b>		
Hexachloroethane	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Indeno[1,2,3-cd]pyrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Isophorone	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Methyl methanesulfonate	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
N-Nitrosodi-n-propylamine	<0.000100	0.000100	0.000800		mg/L	1	08/29/12 01:41 AM
N-Nitrosodimethylamine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
N-Nitrosodiphenylamine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
N-Nitrosopiperidine	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
Naphthalene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Nitrobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
p-Dimethylaminoazobenzene	<0.000200	0.000200	0.000800	N	mg/L	1	08/28/12 11:48 PM
Pentachlorobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Pentachloronitrobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
Pentachlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Phenacetin	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
Phenanthrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Phenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Pronamide	<0.000200	0.000200	0.000800		mg/L	1	08/28/12 11:48 PM
Pyrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 01:41 AM
Pyridine	<0.000800	0.000800	0.00200		mg/L	1	08/29/12 01:41 AM
Surr: 2,4,6-Tribromophenol	112	0	42-124		%REC	1	08/29/12 01:41 AM
Surr: 2,4,6-Tribromophenol	98.5	0	42-124		%REC	1	08/28/12 11:48 PM
Surr: 2-Fluorobiphenyl	93.0	0	50-110		%REC	1	08/28/12 11:48 PM
Surr: 2-Fluorobiphenyl	89.8	0	50-110		%REC	1	08/29/12 01:41 AM
Surr: 2-Fluorophenol	72.2	0	20-110		%REC	1	08/28/12 11:48 PM
Surr: 2-Fluorophenol	66.5	0	20-110		%REC	1	08/29/12 01:41 AM
Surr: 4-Terphenyl-d14	105	0	51-135		%REC	1	08/28/12 11:48 PM
Surr: 4-Terphenyl-d14	106	0	51-135		%REC	1	08/29/12 01:41 AM
Surr: Nitrobenzene-d5	91.2	0	41-110		%REC	1	08/29/12 01:41 AM
Surr: Nitrobenzene-d5	97.8	0	41-110		%REC	1	08/28/12 11:48 PM
Surr: Phenol-d6	46.5	0	20-115		%REC	1	08/29/12 01:41 AM
Surr: Phenol-d6	47.3	0	20-115		%REC	1	08/28/12 11:48 PM
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>			Analyst: <b>KL</b>		
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-003-0812  
**Lab ID:** 1208206-02  
**Collection Date:** 08/21/12 01:10 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>			Analyst: <b>KL</b>		
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 12:52 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 12:52 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 12:52 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	08/27/12 12:52 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 12:52 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	08/27/12 12:52 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:52 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:52 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:52 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:52 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:52 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	08/27/12 12:52 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:52 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-003-0812  
**Lab ID:** 1208206-02  
**Collection Date:** 08/21/12 01:10 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>			Analyst: <b>KL</b>		
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 12:52 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 12:52 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	08/27/12 12:52 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 12:52 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 12:52 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 12:52 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 12:52 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 12:52 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	08/27/12 12:52 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-120		%REC	1	08/27/12 12:52 PM
Surr: 4-Bromofluorobenzene	103	0	75-120		%REC	1	08/27/12 12:52 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	08/27/12 12:52 PM
Surr: Toluene-d8	101	0	85-120		%REC	1	08/27/12 12:52 PM
<b>ANIONS BY IC METHOD - WATER</b>		<b>E300</b>			Analyst: <b>JBC</b>		
Sulfate	1420	10.0	30.0		mg/L	10	08/22/12 10:51 AM
<b>ALKALINITY</b>		<b>M2320 B</b>			Analyst: <b>JBC</b>		
Alkalinity, Bicarbonate (As CaCO3)	160	10.0	20.0		mg/L	1	08/22/12 10:59 AM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L	1	08/22/12 10:59 AM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L	1	08/22/12 10:59 AM
Alkalinity, Total (As CaCO3)	160	10.0	20.0		mg/L	1	08/22/12 10:59 AM
<b>PH</b>		<b>M4500-H+ B</b>			Analyst: <b>JBC</b>		
pH	7.12	0	0		pH Units	1	08/22/12 10:13 AM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

# DHL Analytical

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-003-0812  
**Lab ID:** 1208206-02  
**Collection Date:** 08/21/12 01:10 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL DISSOLVED SOLIDS</b>		<b>M2540C</b>					Analyst: <b>JCG</b>
Total Dissolved Solids (Residue, Filterable)	5720	50.0	50.0		mg/L	1	08/24/12 05:40 PM

<b>Qualifiers:</b>	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-006-0812  
**Lab ID:** 1208206-03  
**Collection Date:** 08/21/12 02:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TPH PURGEABLE BY GC - WATER</b>		<b>M8015V</b>		Analyst: <b>DEW</b>			
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	08/23/12 02:16 PM
Surr: Tetrachlorethene	98.4	0	74-138		%REC	1	08/23/12 02:16 PM
<b>TRACE METALS: ICP-MS - WATER</b>		<b>SW6020</b>		Analyst: <b>AJR</b>			
Lead	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 06:57 PM
<b>SEMIVOLATILES BY GC/MS - WATER</b>		<b>SW8270C</b>		Analyst: <b>DO</b>			
1,2,4,5-Tetrachlorobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
1,2-Diphenylhydrazine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
1-Chloronaphthalene	<0.000200	0.000200	0.000800	N	mg/L	1	08/29/12 12:10 AM
1-Methylnaphthalene	<0.000200	0.000200	0.000800	N	mg/L	1	08/29/12 02:04 AM
1-Naphthylamine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
2,4,5-Trichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2,4,6-Trichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2,4-Dichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2,4-Dimethylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2,4-Dinitrophenol	<0.00100	0.00100	0.00400		mg/L	1	08/29/12 02:04 AM
2,4-Dinitrotoluene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2,6-Dichlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2,6-Dinitrotoluene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2-Chloronaphthalene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2-Chlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2-Methylnaphthalene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2-Methylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2-Naphthylamine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
2-Nitroaniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2-Nitrophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
2-Picoline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
3,3'-Dichlorobenzidine	<0.00100	0.00100	0.00400		mg/L	1	08/29/12 02:04 AM
3-Methylcholanthrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
3-Nitroaniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
4,6-Dinitro-2-methylphenol	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 02:04 AM
4-Aminobiphenyl	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
4-Bromophenyl phenyl ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
4-Chloro-3-methylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
4-Chloroaniline	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 02:04 AM
4-Chlorophenyl phenyl ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
4-Methylphenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
4-Nitroaniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-006-0812  
**Lab ID:** 1208206-03  
**Collection Date:** 08/21/12 02:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILES BY GC/MS - WATER</b>		<b>SW8270C</b>			Analyst: <b>DO</b>		
4-Nitrophenol	<0.00100	0.00100	0.00400		mg/L	1	08/29/12 02:04 AM
7,12-Dimethylbenz(a)anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
Acenaphthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Acenaphthylene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Acetophenone	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Aniline	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Benzidine	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 02:04 AM
Benzo[a]anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Benzo[a]pyrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Benzo[b]fluoranthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Benzo[g,h,i]perylene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Benzo[k]fluoranthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Benzoic acid	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 02:04 AM
Benzyl alcohol	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 02:04 AM
Biphenyl	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Bis(2-chloroethoxy)methane	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Bis(2-chloroethyl)ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Bis(2-chloroisopropyl)ether	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Bis(2-ethylhexyl)phthalate	<0.00100	0.00100	0.00300		mg/L	1	08/29/12 02:04 AM
Butyl benzyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 02:04 AM
Carbazole	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Chrysene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Di-n-butyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 02:04 AM
Di-n-octyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 02:04 AM
Dibenz(a,j)acridine	<0.00100	0.00100	0.00400	N	mg/L	1	08/29/12 12:10 AM
Dibenz[a,h]anthracene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Dibenzofuran	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Diethyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 02:04 AM
Dimethyl phthalate	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 02:04 AM
Dimethylphenethylamine	<0.00200	0.00200	0.00600		mg/L	1	08/29/12 12:10 AM
Diphenylamine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
Ethyl methanesulfonate	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
Fluoranthene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Fluorene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Hexachlorobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Hexachlorobutadiene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Hexachlorocyclopentadiene	<0.000600	0.000600	0.00200		mg/L	1	08/29/12 02:04 AM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Zia Engineering & Environmental  
 Project: Rhodes Canyon  
 Project No:  
 Lab Order: 1208206

Client Sample ID: RCRC-0114-RMW-006-0812  
 Lab ID: 1208206-03  
 Collection Date: 08/21/12 02:15 PM  
 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILES BY GC/MS - WATER</b>		<b>SW8270C</b>			Analyst: <b>DO</b>		
Hexachloroethane	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Indeno[1,2,3-cd]pyrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Isophorone	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Methyl methanesulfonate	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
N-Nitrosodi-n-propylamine	<0.000100	0.000100	0.000800		mg/L	1	08/29/12 02:04 AM
N-Nitrosodimethylamine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
N-Nitrosodiphenylamine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
N-Nitrosopiperidine	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
Naphthalene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Nitrobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
p-Dimethylaminoazobenzene	<0.000200	0.000200	0.000800	N	mg/L	1	08/29/12 12:10 AM
Pentachlorobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Pentachloronitrobenzene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
Pentachlorophenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Phenacetin	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
Phenanthrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Phenol	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Pronamide	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 12:10 AM
Pyrene	<0.000200	0.000200	0.000800		mg/L	1	08/29/12 02:04 AM
Pyridine	<0.000800	0.000800	0.00200		mg/L	1	08/29/12 02:04 AM
Surr: 2,4,6-Tribromophenol	106	0	42-124		%REC	1	08/29/12 02:04 AM
Surr: 2,4,6-Tribromophenol	94.8	0	42-124		%REC	1	08/29/12 12:10 AM
Surr: 2-Fluorobiphenyl	90.5	0	50-110		%REC	1	08/29/12 12:10 AM
Surr: 2-Fluorobiphenyl	86.5	0	50-110		%REC	1	08/29/12 02:04 AM
Surr: 2-Fluorophenol	61.0	0	20-110		%REC	1	08/29/12 12:10 AM
Surr: 2-Fluorophenol	54.8	0	20-110		%REC	1	08/29/12 02:04 AM
Surr: 4-Terphenyl-d14	96.5	0	51-135		%REC	1	08/29/12 12:10 AM
Surr: 4-Terphenyl-d14	97.5	0	51-135		%REC	1	08/29/12 02:04 AM
Surr: Nitrobenzene-d5	88.2	0	41-110		%REC	1	08/29/12 02:04 AM
Surr: Nitrobenzene-d5	95.5	0	41-110		%REC	1	08/29/12 12:10 AM
Surr: Phenol-d6	38.0	0	20-115		%REC	1	08/29/12 02:04 AM
Surr: Phenol-d6	39.5	0	20-115		%REC	1	08/29/12 12:10 AM
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>			Analyst: <b>KL</b>		
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-006-0812  
**Lab ID:** 1208206-03  
**Collection Date:** 08/21/12 02:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>			Analyst: <b>KL</b>		
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 01:16 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 01:16 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 01:16 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	08/27/12 01:16 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 01:16 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	08/27/12 01:16 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:16 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:16 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:16 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:16 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:16 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	08/27/12 01:16 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:16 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-006-0812  
**Lab ID:** 1208206-03  
**Collection Date:** 08/21/12 02:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>		Analyst: <b>KL</b>			
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:16 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 01:16 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	08/27/12 01:16 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:16 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 01:16 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 01:16 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 01:16 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:16 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	08/27/12 01:16 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-120		%REC	1	08/27/12 01:16 PM
Surr: 4-Bromofluorobenzene	103	0	75-120		%REC	1	08/27/12 01:16 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	08/27/12 01:16 PM
Surr: Toluene-d8	101	0	85-120		%REC	1	08/27/12 01:16 PM
<b>ANIONS BY IC METHOD - WATER</b>		<b>E300</b>		Analyst: <b>JBC</b>			
Sulfate	1360	10.0	30.0		mg/L	10	08/22/12 11:03 AM
<b>ALKALINITY</b>		<b>M2320 B</b>		Analyst: <b>JBC</b>			
Alkalinity, Bicarbonate (As CaCO3)	166	10.0	20.0		mg/L	1	08/22/12 11:04 AM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L	1	08/22/12 11:04 AM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L	1	08/22/12 11:04 AM
Alkalinity, Total (As CaCO3)	166	10.0	20.0		mg/L	1	08/22/12 11:04 AM
<b>PH</b>		<b>M4500-H+ B</b>		Analyst: <b>JBC</b>			
pH	6.94	0	0		pH Units	1	08/22/12 10:15 AM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

# DHL Analytical

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-006-0812  
**Lab ID:** 1208206-03  
**Collection Date:** 08/21/12 02:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL DISSOLVED SOLIDS</b>		<b>M2540C</b>					Analyst: <b>JCG</b>
Total Dissolved Solids (Residue, Filterable)	6430	50.0	50.0		mg/L	1	08/24/12 05:40 PM

<b>Qualifiers:</b>	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-006-TB  
**Lab ID:** 1208206-04  
**Collection Date:** 08/21/12 02:15 PM  
**Matrix:** TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>			Analyst: <b>KL</b>		
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 01:40 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 01:40 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 01:40 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	08/27/12 01:40 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	08/27/12 01:40 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	08/27/12 01:40 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:40 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:40 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:40 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:40 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:40 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	08/27/12 01:40 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:40 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM

**Qualifiers:**

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

**DHL Analytical**

Date: 05-Sep-12

**CLIENT:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon  
**Project No:**  
**Lab Order:** 1208206

**Client Sample ID:** RCRC-0114-RMW-006-TB  
**Lab ID:** 1208206-04  
**Collection Date:** 08/21/12 02:15 PM  
**Matrix:** TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>			Analyst: <b>KL</b>		
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	08/27/12 01:40 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 01:40 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	08/27/12 01:40 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/27/12 01:40 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 01:40 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 01:40 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	08/27/12 01:40 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	08/27/12 01:40 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	08/27/12 01:40 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-120		%REC	1	08/27/12 01:40 PM
Surr: 4-Bromofluorobenzene	103	0	75-120		%REC	1	08/27/12 01:40 PM
Surr: Dibromofluoromethane	100	0	85-115		%REC	1	08/27/12 01:40 PM
Surr: Toluene-d8	101	0	85-120		%REC	1	08/27/12 01:40 PM

<b>Qualifiers:</b>	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

**ANALYTICAL QC SUMMARY REPORT**

**RunID: GC4\_120823A**

The QC data in batch 53499 applies to the following samples: 1208206-01B, 1208206-02B, 1208206-03B

Sample ID: <b>LCS-53499</b>	Batch ID: <b>53499</b>	TestNo: <b>M8015V</b>	Units: <b>mg/L</b>							
SampType: <b>LCS</b>	Run ID: <b>GC4_120823A</b>	Analysis Date: <b>8/23/2012 12:03:50 PM</b>	Prep Date: <b>8/23/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.72	0.100	5.000	0	94.3	67	136			
Surr: Tetrachlorethene	0.367		0.4000		91.7	74	138			

Sample ID: <b>MB-53499</b>	Batch ID: <b>53499</b>	TestNo: <b>M8015V</b>	Units: <b>mg/L</b>							
SampType: <b>MBLK</b>	Run ID: <b>GC4_120823A</b>	Analysis Date: <b>8/23/2012 12:54:10 PM</b>	Prep Date: <b>8/23/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.0600	0.100								
Surr: Tetrachlorethene	0.400		0.4000		99.9	74	138			

Sample ID: <b>1208206-01BMS</b>	Batch ID: <b>53499</b>	TestNo: <b>M8015V</b>	Units: <b>mg/L</b>							
SampType: <b>MS</b>	Run ID: <b>GC4_120823A</b>	Analysis Date: <b>8/23/2012 3:32:08 PM</b>	Prep Date: <b>8/23/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.44	0.100	5.000	0	88.8	67	136			
Surr: Tetrachlorethene	0.366		0.4000		91.5	74	138			

Sample ID: <b>1208206-01BMSD</b>	Batch ID: <b>53499</b>	TestNo: <b>M8015V</b>	Units: <b>mg/L</b>							
SampType: <b>MSD</b>	Run ID: <b>GC4_120823A</b>	Analysis Date: <b>8/23/2012 3:57:44 PM</b>	Prep Date: <b>8/23/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.56	0.100	5.000	0	91.1	67	136	2.53	30	
Surr: Tetrachlorethene	0.379		0.4000		94.7	74	138	0	0	

**Qualifiers:** B Analyte detected in the associated Method Blank  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 RL Reporting Limit  
 J Analyte detected between SDL and RL  
 DF Dilution Factor  
 MDL Method Detection Limit  
 R RPD outside accepted control limits  
 S Spike Recovery outside control limits  
 N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GC4\_120823A**

Sample ID: <b>ICV-120823</b>	Batch ID: <b>R62187</b>	TestNo: <b>M8015V</b>	Units: <b>mg/L</b>							
SampType: <b>ICV</b>	Run ID: <b>GC4_120823A</b>	Analysis Date: <b>8/23/2012 11:37:39 AM</b>	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	9.51	0.100	10.00	0	95.1	80	120			
Surr: Tetrachlorethene	0.400		0.4000		100	74	138			

Sample ID: <b>CCV1-120823</b>	Batch ID: <b>R62187</b>	TestNo: <b>M8015V</b>	Units: <b>mg/L</b>							
SampType: <b>CCV</b>	Run ID: <b>GC4_120823A</b>	Analysis Date: <b>8/23/2012 4:22:51 PM</b>	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.52	0.100	5.000	0	90.4	80	120			
Surr: Tetrachlorethene	0.345		0.4000		86.2	74	138			

<p><b>Qualifiers:</b></p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: ICP-MS2\_120827B**

The QC data in batch 53525 applies to the following samples: 1208206-01C, 1208206-02C, 1208206-03C

Sample ID: <b>MB-53525</b>	Batch ID: <b>53525</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>MBLK</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 6:16:00 PM</b>	Prep Date: <b>8/27/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	<0.000300	0.00100
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Sample ID: <b>LCS-53525</b>	Batch ID: <b>53525</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>LCS</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 6:22:00 PM</b>	Prep Date: <b>8/27/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	0.181	0.00100	0.200	0	90.6	80	120
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Sample ID: <b>LCSD-53525</b>	Batch ID: <b>53525</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>LCSD</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 6:28:00 PM</b>	Prep Date: <b>8/27/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	0.188	0.00100	0.200	0	93.8	80	120	3.47	15
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Sample ID: <b>1208206-01C SD</b>	Batch ID: <b>53525</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>SD</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 6:45:00 PM</b>	Prep Date: <b>8/27/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	<0.00150	0.00500	0	0				0	10
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Sample ID: <b>1208206-01C PDS</b>	Batch ID: <b>53525</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>PDS</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 7:15:00 PM</b>	Prep Date: <b>8/27/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	0.198	0.00100	0.200	0	99.0	75	125
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Sample ID: <b>1208206-01C MS</b>	Batch ID: <b>53525</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>MS</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 7:21:00 PM</b>	Prep Date: <b>8/27/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	0.194	0.00100	0.200	0	97.2	80	120
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Sample ID: <b>1208206-01C MSD</b>	Batch ID: <b>53525</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>MSD</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 7:27:00 PM</b>	Prep Date: <b>8/27/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	0.195	0.00100	0.200	0	97.3	80	120	0.154	15
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|--|---|
| <p><b>Qualifiers:</b></p> <ul style="list-style-type: none"> <li>B Analyte detected in the associated Method Blank</li> <li>J Analyte detected between MDL and RL</li> <li>ND Not Detected at the Method Detection Limit</li> <li>RL Reporting Limit</li> <li>J Analyte detected between SDL and RL</li> </ul> | <ul style="list-style-type: none"> <li>DF Dilution Factor</li> <li>MDL Method Detection Limit</li> <li>R RPD outside accepted control limits</li> <li>S Spike Recovery outside control limits</li> <li>N Parameter not NELAC certified</li> </ul> |
|--|---|

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: ICP-MS2\_120827B**

Sample ID: <b>ICV1-120827</b>	Batch ID: <b>R62245</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>ICV</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 3:29:00 PM</b>	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	0.0978	0.00100	0.100	0	97.8	90	110			
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Sample ID: <b>CCV1-120827</b>	Batch ID: <b>R62245</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>CCV</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 5:34:00 PM</b>	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	0.189	0.00100	0.200	0	94.7	90	110			
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Sample ID: <b>CCV2-120827</b>	Batch ID: <b>R62245</b>	TestNo: <b>SW6020</b>	Units: <b>mg/L</b>							
SampType: <b>CCV</b>	Run ID: <b>ICP-MS2_120827B</b>	Analysis Date: <b>8/27/2012 7:44:00 PM</b>	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Lead	0.188	0.00100	0.200	0	94.0	90	110			
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<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828B**

The QC data in batch 53545 applies to the following samples: 1208206-01E, 1208206-02E, 1208206-03E

Sample ID: <b>LCS-53545</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>LCS</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 6:26:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4,5-Tetrachlorobenzene	0.0695	0.000800	0.0800	0	86.9	35	120			
1,2-Diphenylhydrazine	0.0403	0.000800	0.0400	0	101	55	115			
1-Methylnaphthalene	0.0325	0.000800	0.0400	0	81.2	45	125			N
2,4,5-Trichlorophenol	0.0366	0.000800	0.0400	0	91.6	50	110			
2,4,6-Trichlorophenol	0.0366	0.000800	0.0400	0	91.6	50	115			
2,4-Dichlorophenol	0.0380	0.000800	0.0400	0	95.1	50	105			
2,4-Dimethylphenol	0.0390	0.000800	0.0400	0	97.5	30	110			
2,4-Dinitrophenol	0.0378	0.00400	0.0400	0	94.4	15	140			
2,4-Dinitrotoluene	0.0367	0.000800	0.0400	0	91.7	50	120			
2,6-Dichlorophenol	0.0374	0.000800	0.0400	0	93.6	35	120			
2,6-Dinitrotoluene	0.0374	0.000800	0.0400	0	93.4	50	115			
2-Chloronaphthalene	0.0430	0.000800	0.0400	0	107	50	105			S
2-Chlorophenol	0.0363	0.000800	0.0400	0	90.7	35	105			
2-Methylnaphthalene	0.0363	0.000800	0.0400	0	90.7	45	105			
2-Methylphenol	0.0374	0.000800	0.0400	0	93.4	40	110			
2-Nitroaniline	0.0333	0.000800	0.0400	0	83.4	50	115			
2-Nitrophenol	0.0372	0.000800	0.0400	0	92.9	40	115			
3,3'-Dichlorobenzidine	0.0334	0.00400	0.0400	0	83.4	20	110			
3-Nitroaniline	0.0328	0.000800	0.0400	0	81.9	20	125			
4,6-Dinitro-2-methylphenol	0.0388	0.00200	0.0400	0	97.1	40	130			
4-Bromophenyl phenyl ether	0.0400	0.000800	0.0400	0	100	50	115			
4-Chloro-3-methylphenol	0.0434	0.000800	0.0400	0	109	45	110			
4-Chloroaniline	0.0340	0.00200	0.0400	0	85.0	15	110			
4-Chlorophenyl phenyl ether	0.0381	0.000800	0.0400	0	95.2	50	110			
4-Methylphenol	0.0370	0.000800	0.0400	0	92.6	30	110			
4-Nitroaniline	0.0304	0.000800	0.0400	0	76.0	35	120			
4-Nitrophenol	0.0197	0.00400	0.0400	0	49.2	20	120			
Acenaphthene	0.0349	0.000800	0.0400	0	87.2	45	110			
Acenaphthylene	0.0369	0.000800	0.0400	0	92.4	50	105			
Acetophenone	0.0702	0.000800	0.0800	0	87.8	45	125			
Aniline	0.0216	0.000800	0.0400	0	54.0	10	140			
Anthracene	0.0367	0.000800	0.0400	0	91.7	55	110			
Benzidine	0.0165	0.00600	0.0400	0	41.2	20	125			
Benzo[a]anthracene	0.0383	0.000800	0.0400	0	95.8	55	110			
Benzo[a]pyrene	0.0411	0.000800	0.0400	0	103	55	110			
Benzo[b]fluoranthene	0.0445	0.000800	0.0400	0	111	45	120			
Benzo[g,h,i]perylene	0.0415	0.000800	0.0400	0	104	40	125			
Benzo[k]fluoranthene	0.0414	0.000800	0.0400	0	104	45	125			
Benzoic acid	0.0198	0.00600	0.0400	0	49.5	5	120			
Benzyl alcohol	0.0299	0.00200	0.0400	0	74.9	30	110			

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828B**

Sample ID: <b>LCS-53545</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>LCS</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 6:26:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biphenyl	0.0332	0.000800	0.0400	0	83.0	45	125			
Bis(2-chloroethoxy)methane	0.0328	0.000800	0.0400	0	82.1	45	105			
Bis(2-chloroethyl)ether	0.0451	0.000800	0.0400	0	113	35	110			S
Bis(2-chloroisopropyl)ether	0.0318	0.000800	0.0400	0	79.4	25	130			
Bis(2-ethylhexyl)phthalate	0.0392	0.00300	0.0400	0	98.1	40	125			
Butyl benzyl phthalate	0.0388	0.00600	0.0400	0	97.0	45	115			
Carbazole	0.0357	0.000800	0.0400	0	89.2	50	115			
Chrysene	0.0342	0.000800	0.0400	0	85.4	55	110			
Di-n-butyl phthalate	0.0431	0.00600	0.0400	0	108	55	115			
Di-n-octyl phthalate	0.0458	0.00600	0.0400	0	114	35	135			
Dibenz[a,h]anthracene	0.0432	0.000800	0.0400	0	108	40	125			
Dibenzofuran	0.0343	0.000800	0.0400	0	85.7	55	105			
Diethyl phthalate	0.0387	0.00600	0.0400	0	96.9	40	120			
Dimethyl phthalate	0.0376	0.00600	0.0400	0	94.1	25	125			
Fluoranthene	0.0390	0.000800	0.0400	0	97.4	55	115			
Fluorene	0.0380	0.000800	0.0400	0	94.9	50	110			
Hexachlorobenzene	0.0409	0.000800	0.0400	0	102	50	110			
Hexachlorobutadiene	0.0333	0.000800	0.0400	0	83.2	25	105			
Hexachlorocyclopentadiene	0.0253	0.00200	0.0400	0	63.3	25	125			
Hexachloroethane	0.0331	0.000800	0.0400	0	82.7	30	100			
Indeno[1,2,3-cd]pyrene	0.0433	0.000800	0.0400	0	108	45	125			
Isophorone	0.0369	0.000800	0.0400	0	92.3	50	110			
N-Nitrosodi-n-propylamine	0.0439	0.000800	0.0400	0	110	35	130			
N-Nitrosodimethylamine	0.0284	0.000800	0.0400	0	71.0	25	110			
N-Nitrosodiphenylamine	0.0860	0.000800	0.0800	0	108	50	110			
Naphthalene	0.0329	0.000800	0.0400	0	82.2	40	100			
Nitrobenzene	0.0357	0.000800	0.0400	0	89.3	45	110			
Pentachlorobenzene	0.0765	0.000800	0.0800	0	95.6	35	120			
Pentachlorophenol	0.0426	0.000800	0.0400	0	106	40	115			
Phenanthrene	0.0346	0.000800	0.0400	0	86.5	50	115			
Phenol	0.0228	0.000800	0.0400	0	56.9	20	115			
Pyrene	0.0345	0.000800	0.0400	0	86.4	50	130			
Pyridine	0.0233	0.00200	0.0400	0	58.2	20	110			
Surr: 2,4,6-Tribromophenol	92.2		80.00		115	42	124			
Surr: 2-Fluorobiphenyl	72.8		80.00		91.0	50	110			
Surr: 2-Fluorophenol	65.2		80.00		81.5	20	110			
Surr: 4-Terphenyl-d14	84.0		80.00		105	51	135			
Surr: Nitrobenzene-d5	75.0		80.00		93.8	41	110			
Surr: Phenol-d6	51.4		80.00		64.2	20	115			

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828B**

Sample ID: <b>1208206-01EMS</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>MS</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 7:57:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4,5-Tetrachlorobenzene	0.0711	0.000800	0.0800	0	88.9	35	120			
1,2-Diphenylhydrazine	0.0399	0.000800	0.0400	0	99.7	55	115			
1-Methylnaphthalene	0.0332	0.000800	0.0400	0	83.0	45	125			N
2,4,5-Trichlorophenol	0.0367	0.000800	0.0400	0	91.8	50	110			
2,4,6-Trichlorophenol	0.0364	0.000800	0.0400	0	91.0	50	115			
2,4-Dichlorophenol	0.0374	0.000800	0.0400	0	93.5	50	105			
2,4-Dimethylphenol	0.0390	0.000800	0.0400	0	97.6	30	110			
2,4-Dinitrophenol	0.0402	0.00400	0.0400	0	100	15	140			
2,4-Dinitrotoluene	0.0374	0.000800	0.0400	0	93.6	50	120			
2,6-Dichlorophenol	0.0377	0.000800	0.0400	0	94.4	35	120			
2,6-Dinitrotoluene	0.0376	0.000800	0.0400	0	94.0	50	115			
2-Chloronaphthalene	0.0410	0.000800	0.0400	0	102	50	105			
2-Chlorophenol	0.0359	0.000800	0.0400	0	89.7	35	105			
2-Methylnaphthalene	0.0366	0.000800	0.0400	0	91.6	45	105			
2-Methylphenol	0.0363	0.000800	0.0400	0	90.9	40	110			
2-Nitroaniline	0.0337	0.000800	0.0400	0	84.2	50	115			
2-Nitrophenol	0.0357	0.000800	0.0400	0	89.4	40	115			
3,3'-Dichlorobenzidine	0.0283	0.00400	0.0400	0	70.8	20	110			
3-Nitroaniline	0.0334	0.000800	0.0400	0	83.4	20	125			
4,6-Dinitro-2-methylphenol	0.0392	0.00200	0.0400	0	98.1	40	130			
4-Bromophenyl phenyl ether	0.0397	0.000800	0.0400	0	99.2	50	115			
4-Chloro-3-methylphenol	0.0417	0.000800	0.0400	0	104	45	110			
4-Chloroaniline	0.0299	0.00200	0.0400	0	74.8	15	110			
4-Chlorophenyl phenyl ether	0.0384	0.000800	0.0400	0	95.9	50	110			
4-Methylphenol	0.0365	0.000800	0.0400	0	91.3	30	110			
4-Nitroaniline	0.0289	0.000800	0.0400	0	72.3	35	120			
4-Nitrophenol	0.0202	0.00400	0.0400	0	50.6	20	120			
Acenaphthene	0.0352	0.000800	0.0400	0	87.9	45	110			
Acenaphthylene	0.0373	0.000800	0.0400	0	93.3	50	105			
Acetophenone	0.0700	0.000800	0.0800	0	87.4	45	125			
Aniline	0.0194	0.000800	0.0400	0	48.4	10	140			
Anthracene	0.0364	0.000800	0.0400	0	91.0	55	110			
Benzidine	0.00584	0.00600	0.0400	0	14.6	20	125			S
Benzo[a]anthracene	0.0388	0.000800	0.0400	0	97.1	55	110			
Benzo[a]pyrene	0.0411	0.000800	0.0400	0	103	55	110			
Benzo[b]fluoranthene	0.0438	0.000800	0.0400	0	110	45	120			
Benzo[g,h,i]perylene	0.0405	0.000800	0.0400	0	101	40	125			
Benzo[k]fluoranthene	0.0409	0.000800	0.0400	0	102	45	125			
Benzoic acid	0.0216	0.00600	0.0400	0.0153	15.8	5	120			
Benzyl alcohol	0.0290	0.00200	0.0400	0	72.4	30	110			
Biphenyl	0.0336	0.000800	0.0400	0	84.1	45	125			

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828B**

Sample ID: <b>1208206-01EMS</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>MS</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 7:57:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-chloroethoxy)methane	0.0331	0.000800	0.0400	0	82.8	45	105			
Bis(2-chloroethyl)ether	0.0340	0.000800	0.0400	0	84.9	35	110			
Bis(2-chloroisopropyl)ether	0.0322	0.000800	0.0400	0	80.6	25	130			
Bis(2-ethylhexyl)phthalate	0.0395	0.00300	0.0400	0	98.8	40	125			
Butyl benzyl phthalate	0.0393	0.00600	0.0400	0	98.3	45	115			
Carbazole	0.0351	0.000800	0.0400	0	87.7	50	115			
Chrysene	0.0347	0.000800	0.0400	0	86.7	55	110			
Di-n-butyl phthalate	0.0425	0.00600	0.0400	0	106	55	115			
Di-n-octyl phthalate	0.0459	0.00600	0.0400	0	115	35	135			
Dibenz[a,h]anthracene	0.0423	0.000800	0.0400	0	106	40	125			
Dibenzofuran	0.0343	0.000800	0.0400	0	85.8	55	105			
Diethyl phthalate	0.0393	0.00600	0.0400	0	98.2	40	120			
Dimethyl phthalate	0.0375	0.00600	0.0400	0	93.8	25	125			
Fluoranthene	0.0389	0.000800	0.0400	0	97.2	55	115			
Fluorene	0.0380	0.000800	0.0400	0	94.9	50	110			
Hexachlorobenzene	0.0409	0.000800	0.0400	0	102	50	110			
Hexachlorobutadiene	0.0348	0.000800	0.0400	0	86.9	25	105			
Hexachlorocyclopentadiene	0.0264	0.00200	0.0400	0	65.9	25	125			
Hexachloroethane	0.0330	0.000800	0.0400	0	82.6	30	100			
Indeno[1,2,3-cd]pyrene	0.0425	0.000800	0.0400	0	106	45	125			
Isophorone	0.0373	0.000800	0.0400	0	93.3	50	110			
N-Nitrosodi-n-propylamine	0.0432	0.000800	0.0400	0	108	35	130			
N-Nitrosodimethylamine	0.0286	0.000800	0.0400	0	71.5	25	110			
N-Nitrosodiphenylamine	0.0866	0.000800	0.0800	0	108	50	110			
Naphthalene	0.0333	0.000800	0.0400	0	83.3	40	100			
Nitrobenzene	0.0355	0.000800	0.0400	0	88.7	45	110			
Pentachlorobenzene	0.0761	0.000800	0.0800	0	95.1	35	120			
Pentachlorophenol	0.0428	0.000800	0.0400	0	107	40	115			
Phenanthrene	0.0348	0.000800	0.0400	0	87.0	50	115			
Phenol	0.0223	0.000800	0.0400	0	55.8	20	115			
Pyrene	0.0353	0.000800	0.0400	0	88.2	50	130			
Pyridine	0.0219	0.00200	0.0400	0	54.7	20	110			
Surr: 2,4,6-Tribromophenol	90.8		80.00		114	42	124			
Surr: 2-Fluorobiphenyl	73.4		80.00		91.8	50	110			
Surr: 2-Fluorophenol	63.8		80.00		79.8	20	110			
Surr: 4-Terphenyl-d14	82.8		80.00		104	51	135			
Surr: Nitrobenzene-d5	75.2		80.00		94.0	41	110			
Surr: Phenol-d6	49.8		80.00		62.3	20	115			

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828B**

Sample ID: <b>1208206-01EMSD</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>MSD</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 8:20:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4,5-Tetrachlorobenzene	0.0722	0.000800	0.0800	0	90.2	35	120	1.45	30	
1,2-Diphenylhydrazine	0.0404	0.000800	0.0400	0	101	55	115	1.44	30	
1-Methylnaphthalene	0.0331	0.000800	0.0400	0	82.8	45	125	0.301	30	N
2,4,5-Trichlorophenol	0.0363	0.000800	0.0400	0	90.7	50	110	1.21	30	
2,4,6-Trichlorophenol	0.0360	0.000800	0.0400	0	89.9	50	115	1.22	30	
2,4-Dichlorophenol	0.0383	0.000800	0.0400	0	95.8	50	105	2.48	30	
2,4-Dimethylphenol	0.0392	0.000800	0.0400	0	97.9	30	110	0.307	30	
2,4-Dinitrophenol	0.0360	0.00400	0.0400	0	89.9	15	140	11.0	30	
2,4-Dinitrotoluene	0.0362	0.000800	0.0400	0	90.4	50	120	3.37	30	
2,6-Dichlorophenol	0.0385	0.000800	0.0400	0	96.2	35	120	1.89	30	
2,6-Dinitrotoluene	0.0372	0.000800	0.0400	0	93.0	50	115	1.07	30	
2-Chloronaphthalene	0.0414	0.000800	0.0400	0	103	50	105	0.923	30	
2-Chlorophenol	0.0357	0.000800	0.0400	0	89.3	35	105	0.447	30	
2-Methylnaphthalene	0.0369	0.000800	0.0400	0	92.2	45	105	0.707	30	
2-Methylphenol	0.0349	0.000800	0.0400	0	87.2	40	110	4.16	30	
2-Nitroaniline	0.0330	0.000800	0.0400	0	82.6	50	115	1.98	30	
2-Nitrophenol	0.0367	0.000800	0.0400	0	91.9	40	115	2.76	30	
3,3'-Dichlorobenzidine	0.0275	0.00400	0.0400	0	68.8	20	110	2.87	30	
3-Nitroaniline	0.0321	0.000800	0.0400	0	80.2	20	125	3.97	30	
4,6-Dinitro-2-methylphenol	0.0400	0.00200	0.0400	0	100	40	130	1.97	30	
4-Bromophenyl phenyl ether	0.0395	0.000800	0.0400	0	98.9	50	115	0.404	30	
4-Chloro-3-methylphenol	0.0429	0.000800	0.0400	0	107	45	110	2.89	30	
4-Chloroaniline	0.0303	0.00200	0.0400	0	75.7	15	110	1.13	30	
4-Chlorophenyl phenyl ether	0.0380	0.000800	0.0400	0	95.0	50	110	0.943	30	
4-Methylphenol	0.0368	0.000800	0.0400	0	91.9	30	110	0.655	30	
4-Nitroaniline	0.0279	0.000800	0.0400	0	69.6	35	120	3.73	30	
4-Nitrophenol	0.0197	0.00400	0.0400	0	49.2	20	120	2.81	30	
Acenaphthene	0.0349	0.000800	0.0400	0	87.3	45	110	0.685	30	
Acenaphthylene	0.0369	0.000800	0.0400	0	92.4	50	105	0.970	30	
Acetophenone	0.0694	0.000800	0.0800	0	86.8	45	125	0.746	30	
Aniline	0.0211	0.000800	0.0400	0	52.6	10	140	8.41	30	
Anthracene	0.0368	0.000800	0.0400	0	92.0	55	110	1.09	30	
Benzidine	0.00416	0.00600	0.0400	0	10.4	20	125	33.6	30	SR
Benzo[a]anthracene	0.0387	0.000800	0.0400	0	96.9	55	110	0.258	30	
Benzo[a]pyrene	0.0403	0.000800	0.0400	0	101	55	110	2.02	30	
Benzo[b]fluoranthene	0.0435	0.000800	0.0400	0	109	45	120	0.871	30	
Benzo[g,h,i]perylene	0.0402	0.000800	0.0400	0	100	40	125	0.892	30	
Benzo[k]fluoranthene	0.0411	0.000800	0.0400	0	103	45	125	0.390	30	
Benzoic acid	0.0236	0.00600	0.0400	0.0153	20.8	5	120	8.85	30	
Benzyl alcohol	0.0287	0.00200	0.0400	0	71.7	30	110	0.972	30	
Biphenyl	0.0336	0.000800	0.0400	0	83.9	45	125	0.238	30	

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828B**

Sample ID: <b>1208206-01EMSD</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>MSD</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 8:20:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-chloroethoxy)methane	0.0331	0.000800	0.0400	0	82.6	45	105	0.181	30	
Bis(2-chloroethyl)ether	0.0345	0.000800	0.0400	0	86.3	35	110	1.64	30	
Bis(2-chloroisopropyl)ether	0.0314	0.000800	0.0400	0	78.6	25	130	2.51	30	
Bis(2-ethylhexyl)phthalate	0.0396	0.00300	0.0400	0	99.1	40	125	0.303	30	
Butyl benzyl phthalate	0.0391	0.00600	0.0400	0	97.7	45	115	0.612	30	
Carbazole	0.0354	0.000800	0.0400	0	88.5	50	115	0.908	30	
Chrysene	0.0349	0.000800	0.0400	0	87.4	55	110	0.747	30	
Di-n-butyl phthalate	0.0426	0.00600	0.0400	0	106	55	115	0.282	30	
Di-n-octyl phthalate	0.0452	0.00600	0.0400	0	113	35	135	1.45	30	
Dibenz[a,h]anthracene	0.0411	0.000800	0.0400	0	103	40	125	2.83	30	
Dibenzofuran	0.0341	0.000800	0.0400	0	85.3	55	105	0.526	30	
Diethyl phthalate	0.0380	0.00600	0.0400	0	95.1	40	120	3.26	30	
Dimethyl phthalate	0.0367	0.00600	0.0400	0	91.7	25	125	2.26	30	
Fluoranthene	0.0389	0.000800	0.0400	0	97.3	55	115	0.103	30	
Fluorene	0.0374	0.000800	0.0400	0	93.6	50	110	1.38	30	
Hexachlorobenzene	0.0413	0.000800	0.0400	0	103	50	110	0.925	30	
Hexachlorobutadiene	0.0354	0.000800	0.0400	0	88.4	25	105	1.71	30	
Hexachlorocyclopentadiene	0.0252	0.00200	0.0400	0	62.9	25	125	4.66	30	
Hexachloroethane	0.0340	0.000800	0.0400	0	84.9	30	100	2.81	30	
Indeno[1,2,3-cd]pyrene	0.0418	0.000800	0.0400	0	105	45	125	1.57	30	
Isophorone	0.0372	0.000800	0.0400	0	93.0	50	110	0.322	30	
N-Nitrosodi-n-propylamine	0.0427	0.000800	0.0400	0	107	35	130	1.07	30	
N-Nitrosodimethylamine	0.0262	0.000800	0.0400	0	65.4	25	110	8.84	30	
N-Nitrosodiphenylamine	0.0862	0.000800	0.0800	0	108	50	110	0.486	30	
Naphthalene	0.0338	0.000800	0.0400	0	84.6	40	100	1.61	30	
Nitrobenzene	0.0359	0.000800	0.0400	0	89.7	45	110	1.12	30	
Pentachlorobenzene	0.0769	0.000800	0.0800	0	96.1	35	120	1.02	30	
Pentachlorophenol	0.0433	0.000800	0.0400	0	108	40	115	1.07	30	
Phenanthrene	0.0347	0.000800	0.0400	0	86.8	50	115	0.288	30	
Phenol	0.0214	0.000800	0.0400	0	53.4	20	115	4.31	30	
Pyrene	0.0350	0.000800	0.0400	0	87.6	50	130	0.739	30	
Pyridine	0.0235	0.00200	0.0400	0	58.8	20	110	7.14	30	
Surr: 2,4,6-Tribromophenol	91.2		80.00		114	42	124	0	0	
Surr: 2-Fluorobiphenyl	71.6		80.00		89.5	50	110	0	0	
Surr: 2-Fluorophenol	62.0		80.00		77.5	20	110	0	0	
Surr: 4-Terphenyl-d14	84.0		80.00		105	51	135	0	0	
Surr: Nitrobenzene-d5	75.8		80.00		94.8	41	110	0	0	
Surr: Phenol-d6	46.8		80.00		58.5	20	115	0	0	

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS9\_120828B

Sample ID: <b>MB-53545</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>MBLK</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 10:39:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4,5-Tetrachlorobenzene	<0.000200	0.000800								
1,2-Diphenylhydrazine	<0.000200	0.000800								
1-Methylnaphthalene	<0.000200	0.000800								N
2,4,5-Trichlorophenol	<0.000200	0.000800								
2,4,6-Trichlorophenol	<0.000200	0.000800								
2,4-Dichlorophenol	<0.000200	0.000800								
2,4-Dimethylphenol	<0.000200	0.000800								
2,4-Dinitrophenol	<0.00100	0.00400								
2,4-Dinitrotoluene	<0.000200	0.000800								
2,6-Dichlorophenol	<0.000200	0.000800								
2,6-Dinitrotoluene	<0.000200	0.000800								
2-Chloronaphthalene	<0.000200	0.000800								
2-Chlorophenol	<0.000200	0.000800								
2-Methylnaphthalene	<0.000200	0.000800								
2-Methylphenol	<0.000200	0.000800								
2-Nitroaniline	<0.000200	0.000800								
2-Nitrophenol	<0.000200	0.000800								
3,3'-Dichlorobenzidine	<0.00100	0.00400								
3-Nitroaniline	<0.000200	0.000800								
4,6-Dinitro-2-methylphenol	<0.000600	0.00200								
4-Bromophenyl phenyl ether	<0.000200	0.000800								
4-Chloro-3-methylphenol	<0.000200	0.000800								
4-Chloroaniline	<0.000600	0.00200								
4-Chlorophenyl phenyl ether	<0.000200	0.000800								
4-Methylphenol	<0.000200	0.000800								
4-Nitroaniline	<0.000200	0.000800								
4-Nitrophenol	<0.00100	0.00400								
Acenaphthene	<0.000200	0.000800								
Acenaphthylene	<0.000200	0.000800								
Acetophenone	<0.000200	0.000800								
Aniline	<0.000200	0.000800								
Anthracene	<0.000200	0.000800								
Benzidine	<0.00200	0.00600								
Benzo[a]anthracene	<0.000200	0.000800								
Benzo[a]pyrene	<0.000200	0.000800								
Benzo[b]fluoranthene	<0.000200	0.000800								
Benzo[g,h,i]perylene	<0.000200	0.000800								
Benzo[k]fluoranthene	<0.000200	0.000800								
Benzoic acid	<0.00200	0.00600								
Benzyl alcohol	<0.000600	0.00200								
Biphenyl	<0.000200	0.000800								

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828B**

Sample ID: <b>MB-53545</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>MBLK</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 10:39:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-chloroethoxy)methane	<0.000200	0.000800								
Bis(2-chloroethyl)ether	<0.000200	0.000800								
Bis(2-chloroisopropyl)ether	<0.000200	0.000800								
Bis(2-ethylhexyl)phthalate	<0.00100	0.00300								
Butyl benzyl phthalate	<0.00200	0.00600								
Carbazole	<0.000200	0.000800								
Chrysene	<0.000200	0.000800								
Di-n-butyl phthalate	<0.00200	0.00600								
Di-n-octyl phthalate	<0.00200	0.00600								
Dibenz[a,h]anthracene	<0.000200	0.000800								
Dibenzofuran	<0.000200	0.000800								
Diethyl phthalate	<0.00200	0.00600								
Dimethyl phthalate	<0.00200	0.00600								
Fluoranthene	<0.000200	0.000800								
Fluorene	<0.000200	0.000800								
Hexachlorobenzene	<0.000200	0.000800								
Hexachlorobutadiene	<0.000200	0.000800								
Hexachlorocyclopentadiene	<0.000600	0.00200								
Hexachloroethane	<0.000200	0.000800								
Indeno[1,2,3-cd]pyrene	<0.000200	0.000800								
Isophorone	<0.000200	0.000800								
N-Nitrosodi-n-propylamine	<0.000100	0.000800								
N-Nitrosodimethylamine	<0.000200	0.000800								
N-Nitrosodiphenylamine	<0.000200	0.000800								
Naphthalene	<0.000200	0.000800								
Nitrobenzene	<0.000200	0.000800								
Pentachlorobenzene	<0.000200	0.000800								
Pentachlorophenol	<0.000200	0.000800								
Phenanthrene	<0.000200	0.000800								
Phenol	<0.000200	0.000800								
Pyrene	<0.000200	0.000800								
Pyridine	<0.000800	0.00200								
Surr: 2,4,6-Tribromophenol	84.8		80.00		106	42	124			
Surr: 2-Fluorobiphenyl	68.2		80.00		85.3	50	110			
Surr: 2-Fluorophenol	51.6		80.00		64.5	20	110			
Surr: 4-Terphenyl-d14	78.6		80.00		98.3	51	135			
Surr: Nitrobenzene-d5	70.6		80.00		88.2	41	110			
Surr: Phenol-d6	37.2		80.00		46.5	20	115			

**Qualifiers:**

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828B**

Sample ID: <b>ICV-120828</b>	Batch ID: <b>R62279</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>ICV</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 4:54:00 PM</b>	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4,5-Tetrachlorobenzene	4.28	0.000800	4.00	0	107	80	120			
1,2-Diphenylhydrazine	3.78	0.000800	4.00	0	94.4	80	120			
1-Methylnaphthalene	8.69	0.000800	8.00	0	109	80	120			N
2,4,5-Trichlorophenol	3.93	0.000800	4.00	0	98.3	80	120			
2,4,6-Trichlorophenol	3.88	0.000800	4.00	0	96.9	80	120			
2,4-Dichlorophenol	3.89	0.000800	4.00	0	97.3	80	120			
2,4-Dimethylphenol	3.50	0.000800	4.00	0	87.4	80	120			
2,4-Dinitrophenol	3.84	0.00400	4.00	0	96.0	80	120			
2,4-Dinitrotoluene	3.68	0.000800	4.00	0	92.0	80	120			
2,6-Dichlorophenol	3.86	0.000800	4.00	0	96.5	80	120			
2,6-Dinitrotoluene	3.98	0.000800	4.00	0	99.5	80	120			
2-Chloronaphthalene	3.88	0.000800	4.00	0	97.1	80	120			
2-Chlorophenol	3.66	0.000800	4.00	0	91.5	80	120			
2-Methylnaphthalene	4.01	0.000800	4.00	0	100	80	120			
2-Methylphenol	3.57	0.000800	4.00	0	89.2	80	120			
2-Nitroaniline	3.47	0.000800	4.00	0	86.7	80	120			
2-Nitrophenol	3.94	0.000800	4.00	0	98.6	80	120			
3,3'-Dichlorobenzidine	3.70	0.00400	4.00	0	92.5	80	120			
3-Nitroaniline	3.60	0.000800	4.00	0	89.9	80	120			
4,6-Dinitro-2-methylphenol	3.87	0.00200	4.00	0	96.6	80	120			
4-Bromophenyl phenyl ether	4.22	0.000800	4.00	0	105	80	120			
4-Chloro-3-methylphenol	4.35	0.000800	4.00	0	109	80	120			
4-Chloroaniline	4.00	0.00200	4.00	0	100	80	120			
4-Chlorophenyl phenyl ether	4.08	0.000800	4.00	0	102	80	120			
4-Methylphenol	3.73	0.000800	4.00	0	93.2	80	120			
4-Nitroaniline	3.31	0.000800	4.00	0	82.6	80	120			
4-Nitrophenol	3.87	0.00400	4.00	0	96.8	80	120			
Acenaphthene	3.80	0.000800	4.00	0	95.0	80	120			
Acenaphthylene	3.97	0.000800	4.00	0	99.2	80	120			
Acetophenone	4.02	0.000800	4.00	0	100	80	120			
Aniline	3.56	0.000800	4.00	0	89.1	80	120			
Anthracene	3.82	0.000800	4.00	0	95.6	80	120			
Benzidine	2.59	0.00600	4.00	0	64.7	80	120			S
Benzo[a]anthracene	3.83	0.000800	4.00	0	95.7	80	120			
Benzo[a]pyrene	3.73	0.000800	4.00	0	93.3	80	120			
Benzo[b]fluoranthene	4.57	0.000800	4.00	0	114	80	120			
Benzo[g,h,i]perylene	4.19	0.000800	4.00	0	105	80	120			
Benzo[k]fluoranthene	3.62	0.000800	4.00	0	90.5	80	120			
Benzoic acid	3.58	0.00600	4.00	0	89.4	80	120			
Benzyl alcohol	3.48	0.00200	4.00	0	86.9	80	120			
Biphenyl	3.91	0.000800	4.00	0	97.8	80	120			

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828B**

Sample ID: <b>ICV-120828</b>	Batch ID: <b>R62279</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>ICV</b>	Run ID: <b>GCMS9_120828B</b>	Analysis Date: <b>8/28/2012 4:54:00 PM</b>	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bis(2-chloroethoxy)methane	3.47	0.000800	4.00	0	86.7	80	120			
Bis(2-chloroethyl)ether	4.87	0.000800	4.00	0	122	80	120			S
Bis(2-chloroisopropyl)ether	3.35	0.000800	4.00	0	83.8	80	120			
Bis(2-ethylhexyl)phthalate	3.67	0.00300	4.00	0	91.8	80	120			
Butyl benzyl phthalate	3.65	0.00600	4.00	0	91.2	80	120			
Carbazole	3.81	0.000800	4.00	0	95.2	80	120			
Chrysene	3.38	0.000800	4.00	0	84.5	80	120			
Di-n-butyl phthalate	4.39	0.00600	4.00	0	110	80	120			
Di-n-octyl phthalate	3.85	0.00600	4.00	0	96.2	80	120			
Dibenz[a,h]anthracene	4.28	0.000800	4.00	0	107	80	120			
Dibenzofuran	3.78	0.000800	4.00	0	94.5	80	120			
Diethyl phthalate	4.10	0.00600	4.00	0	102	80	120			
Dimethyl phthalate	3.94	0.00600	4.00	0	98.6	80	120			
Fluoranthene	4.12	0.000800	4.00	0	103	80	120			
Fluorene	4.13	0.000800	4.00	0	103	80	120			
Hexachlorobenzene	4.37	0.000800	4.00	0	109	80	120			
Hexachlorobutadiene	4.34	0.000800	4.00	0	109	80	120			
Hexachlorocyclopentadiene	3.52	0.00200	4.00	0	88.1	80	120			
Hexachloroethane	3.94	0.000800	4.00	0	98.6	80	120			
Indeno[1,2,3-cd]pyrene	4.32	0.000800	4.00	0	108	80	120			
Isophorone	3.78	0.000800	4.00	0	94.5	80	120			
N-Nitrosodi-n-propylamine	4.23	0.000800	4.00	0	106	80	120			
N-Nitrosodimethylamine	5.04	0.000800	4.00	0	126	80	120			S
N-Nitrosodiphenylamine	3.96	0.000800	4.00	0	98.9	80	120			
Naphthalene	3.62	0.000800	4.00	0	90.4	80	120			
Nitrobenzene	3.77	0.000800	4.00	0	94.4	80	120			
Pentachlorobenzene	4.07	0.000800	4.00	0	102	80	120			
Pentachlorophenol	4.27	0.000800	4.00	0	107	80	120			
Phenanthrene	3.67	0.000800	4.00	0	91.7	80	120			
Phenol	3.21	0.000800	4.00	0	80.3	80	120			
Pyrene	3.48	0.000800	4.00	0	87.1	80	120			
Pyridine	4.67	0.00200	4.00	0	117	80	120			
Surr: 2,4,6-Tribromophenol	4250		4000		106	80	120			
Surr: 2-Fluorobiphenyl	3630		4000		90.8	80	120			
Surr: 2-Fluorophenol	3410		4000		85.2	80	120			
Surr: 4-Terphenyl-d14	3540		4000		88.5	80	120			
Surr: Nitrobenzene-d5	3660		4000		91.5	80	120			
Surr: Phenol-d6	3420		4000		85.5	80	120			

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828C**

The QC data in batch 53545 applies to the following samples: 1208206-01E, 1208206-02E, 1208206-03E

Sample ID: <b>LCS-53545</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>							
SampType: <b>LCS</b>	Run ID: <b>GCMS9_120828C</b>	Analysis Date: <b>8/28/2012 6:03:00 PM</b>	Prep Date: <b>8/28/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Chloronaphthalene	0.0338	0.000800	0.0400	0	84.4	45	125			N
1-Naphthylamine	0.0321	0.000800	0.0400	0	80.3	45	125			
2-Naphthylamine	0.0310	0.000800	0.0400	0	77.4	45	125			
2-Picoline	0.0261	0.000800	0.0400	0	65.2	45	125			
3-Methylcholanthrene	0.0387	0.000800	0.0400	0	96.7	45	125			
4-Aminobiphenyl	0.0233	0.000800	0.0400	0	58.2	45	125			
7,12-Dimethylbenz(a)anthracene	0.0409	0.000800	0.0400	0	102	45	125			
Dibenz(a,j)acridine	0.0394	0.00400	0.0400	0	98.6	45	125			N
Dimethylphenethylamine	0.0206	0.00600	0.0400	0	51.5	45	125			
Diphenylamine	0.0722	0.000800	0.0800	0	90.3	45	125			
Ethyl methanesulfonate	0.0372	0.000800	0.0400	0	93.0	45	125			
Methyl methanesulfonate	0.0296	0.000800	0.0400	0	74.1	45	125			
N-Nitrosopiperidine	0.0382	0.000800	0.0400	0	95.4	45	125			
p-Dimethylaminoazobenzene	0.0402	0.000800	0.0400	0	100	45	125			N
Pentachloronitrobenzene	0.0410	0.000800	0.0400	0	103	45	125			
Phenacetin	0.0428	0.000800	0.0400	0	107	45	125			
Pronamide	0.0408	0.000800	0.0400	0	102	45	125			
Surr: 2,4,6-Tribromophenol	81.0		80.00		101	42	124			
Surr: 2-Fluorobiphenyl	76.0		80.00		95.0	50	110			
Surr: 2-Fluorophenol	70.6		80.00		88.2	20	110			
Surr: 4-Terphenyl-d14	83.8		80.00		105	51	135			
Surr: Nitrobenzene-d5	81.2		80.00		102	41	110			
Surr: Phenol-d6	53.4		80.00		66.8	20	115			

Sample ID: <b>1208206-01EMS</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>							
SampType: <b>MS</b>	Run ID: <b>GCMS9_120828C</b>	Analysis Date: <b>8/28/2012 7:13:00 PM</b>	Prep Date: <b>8/28/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Chloronaphthalene	0.0341	0.000800	0.0400	0	85.3	45	125			N
1-Naphthylamine	0.0307	0.000800	0.0400	0	76.8	45	125			
2-Naphthylamine	0.0297	0.000800	0.0400	0	74.4	45	125			
2-Picoline	0.0261	0.000800	0.0400	0	65.4	45	125			
3-Methylcholanthrene	0.0391	0.000800	0.0400	0	97.9	45	125			
4-Aminobiphenyl	0.00618	0.000800	0.0400	0	15.4	45	125			S
7,12-Dimethylbenz(a)anthracene	0.0410	0.000800	0.0400	0	102	45	125			
Dibenz(a,j)acridine	0.0390	0.00400	0.0400	0	97.5	45	125			N
Dimethylphenethylamine	0.0152	0.00600	0.0400	0	38.0	45	125			S
Diphenylamine	0.0717	0.000800	0.0800	0	89.6	45	125			
Ethyl methanesulfonate	0.0374	0.000800	0.0400	0	93.5	45	125			
Methyl methanesulfonate	0.0304	0.000800	0.0400	0	76.0	45	125			

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828C**

Sample ID: <b>1208206-01EMS</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>MS</b>	Run ID: <b>GCMS9_120828C</b>	Analysis Date: <b>8/28/2012 7:13:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Nitrosopiperidine	0.0386	0.000800	0.0400	0	96.5	45	125			
p-Dimethylaminoazobenzene	0.0402	0.000800	0.0400	0	100	45	125			N
Pentachloronitrobenzene	0.0404	0.000800	0.0400	0	101	45	125			
Phenacetin	0.0426	0.000800	0.0400	0	106	45	125			
Pronamide	0.0394	0.000800	0.0400	0	98.4	45	125			
Surr: 2,4,6-Tribromophenol	77.8		80.00		97.3	42	124			
Surr: 2-Fluorobiphenyl	76.0		80.00		95.0	50	110			
Surr: 2-Fluorophenol	70.0		80.00		87.5	20	110			
Surr: 4-Terphenyl-d14	82.8		80.00		104	51	135			
Surr: Nitrobenzene-d5	81.2		80.00		102	41	110			
Surr: Phenol-d6	52.4		80.00		65.5	20	115			

Sample ID: <b>1208206-01EMSD</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>MSD</b>	Run ID: <b>GCMS9_120828C</b>	Analysis Date: <b>8/28/2012 7:35:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Chloronaphthalene	0.0345	0.000800	0.0400	0	86.3	45	125	1.17	30	N
1-Naphthylamine	0.0312	0.000800	0.0400	0	78.1	45	125	1.55	30	
2-Naphthylamine	0.0297	0.000800	0.0400	0	74.3	45	125	0.067	30	
2-Picoline	0.0300	0.000800	0.0400	0	75.0	45	125	13.7	30	
3-Methylcholanthrene	0.0388	0.000800	0.0400	0	97.0	45	125	0.872	30	
4-Aminobiphenyl	0.00640	0.000800	0.0400	0	16.0	45	125	3.50	30	S
7,12-Dimethylbenz(a)anthracene	0.0403	0.000800	0.0400	0	101	45	125	1.57	30	
Dibenz(a,j)acridine	0.0394	0.00400	0.0400	0	98.6	45	125	1.07	30	N
Dimethylphenethylamine	0.0228	0.00600	0.0400	0	57.0	45	125	40.0	30	R
Diphenylamine	0.0716	0.000800	0.0800	0	89.5	45	125	0.083	30	
Ethyl methanesulfonate	0.0375	0.000800	0.0400	0	93.8	45	125	0.374	30	
Methyl methanesulfonate	0.0304	0.000800	0.0400	0	76.0	45	125	0	30	
N-Nitrosopiperidine	0.0383	0.000800	0.0400	0	95.8	45	125	0.676	30	
p-Dimethylaminoazobenzene	0.0403	0.000800	0.0400	0	101	45	125	0.348	30	N
Pentachloronitrobenzene	0.0410	0.000800	0.0400	0	102	45	125	1.33	30	
Phenacetin	0.0428	0.000800	0.0400	0	107	45	125	0.562	30	
Pronamide	0.0392	0.000800	0.0400	0	98.1	45	125	0.305	30	
Surr: 2,4,6-Tribromophenol	80.0		80.00		100	42	124	0	0	
Surr: 2-Fluorobiphenyl	77.0		80.00		96.2	50	110	0	0	
Surr: 2-Fluorophenol	69.2		80.00		86.5	20	110	0	0	
Surr: 4-Terphenyl-d14	83.0		80.00		104	51	135	0	0	
Surr: Nitrobenzene-d5	80.6		80.00		101	41	110	0	0	
Surr: Phenol-d6	50.6		80.00		63.3	20	115	0	0	

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828C**

Sample ID: <b>MB-53545</b>	Batch ID: <b>53545</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>MBLK</b>	Run ID: <b>GCMS9_120828C</b>	Analysis Date: <b>8/28/2012 11:02:00 PM</b>	Prep Date: <b>8/28/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Chloronaphthalene	<0.000200	0.000800								N
1-Naphthylamine	<0.000200	0.000800								
2-Naphthylamine	<0.000200	0.000800								
2-Picoline	<0.000200	0.000800								
3-Methylcholanthrene	<0.000200	0.000800								
4-Aminobiphenyl	<0.000200	0.000800								
7,12-Dimethylbenz(a)anthracene	<0.000200	0.000800								
Dibenz(a,j)acridine	<0.00100	0.00400								N
Dimethylphenethylamine	<0.00200	0.00600								
Diphenylamine	<0.000200	0.000800								
Ethyl methanesulfonate	<0.000200	0.000800								
Methyl methanesulfonate	<0.000200	0.000800								
N-Nitrosopiperidine	<0.000200	0.000800								
p-Dimethylaminoazobenzene	<0.000200	0.000800								N
Pentachloronitrobenzene	<0.000200	0.000800								
Phenacetin	<0.000200	0.000800								
Pronamide	<0.000200	0.000800								
Surr: 2,4,6-Tribromophenol	74.4		80.00		93.0	42	124			
Surr: 2-Fluorobiphenyl	72.4		80.00		90.5	50	110			
Surr: 2-Fluorophenol	57.4		80.00		71.8	20	110			
Surr: 4-Terphenyl-d14	78.6		80.00		98.3	51	135			
Surr: Nitrobenzene-d5	76.2		80.00		95.2	41	110			
Surr: Phenol-d6	39.2		82.00		47.8	20	115			

**Qualifiers:**

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS9\_120828C**

Sample ID: <b>ICV-120828 APP9</b>	Batch ID: <b>R62315</b>	TestNo: <b>SW8270C</b>	Units: <b>mg/L</b>
SampType: <b>ICV</b>	Run ID: <b>GCMS9_120828C</b>	Analysis Date: <b>8/28/2012 5:18:00 PM</b>	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Chloronaphthalene	3.86	0.000800	4.00	0	96.6	80	120			N
1-Naphthylamine	4.02	0.000800	4.00	0	101	80	120			
2-Naphthylamine	4.07	0.000800	4.00	0	102	80	120			
2-Picoline	3.98	0.000800	4.00	0	99.4	80	120			
3-Methylcholanthrene	4.07	0.000800	4.00	0	102	80	120			
4-Aminobiphenyl	4.27	0.000800	4.00	0	107	80	120			
7,12-Dimethylbenz(a)anthracene	4.39	0.000800	4.00	0	110	80	120			
Dibenz(a,j)acridine	4.26	0.00400	4.00	0	106	80	120			N
Dimethylphenethylamine	4.22	0.00600	4.00	0	105	80	120			
Diphenylamine	4.21	0.000800	4.00	0	105	80	120			
Ethyl methanesulfonate	4.03	0.000800	4.00	0	101	80	120			
Methyl methanesulfonate	4.18	0.000800	4.00	0	105	80	120			
N-Nitrosopiperidine	4.15	0.000800	4.00	0	104	80	120			
p-Dimethylaminoazobenzene	4.11	0.000800	4.00	0	103	80	120			N
Pentachloronitrobenzene	4.10	0.000800	4.00	0	102	80	120			
Phenacetin	4.08	0.000800	4.00	0	102	80	120			
Pronamide	3.97	0.000800	4.00	0	99.2	80	120			
Surr: 2,4,6-Tribromophenol	3990		4000		99.8	80	120			
Surr: 2-Fluorobiphenyl	4010		4000		100	80	120			
Surr: 2-Fluorophenol	4080		4000		102	80	120			
Surr: 4-Terphenyl-d14	3980		4000		99.5	80	120			
Surr: Nitrobenzene-d5	4190		4000		105	80	120			
Surr: Phenol-d6	4150		4000		104	80	120			

**Qualifiers:**

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS7\_120827A**

The QC data in batch 53517 applies to the following samples: 1208206-01A, 1208206-02A, 1208206-03A, 1208206-04A

Sample ID: <b>LCS-53517</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>LCS</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 11:14:00 AM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0232	0.00100	0.0232	0	100	80	130			
1,1,1-Trichloroethane	0.0223	0.00100	0.0232	0	96.2	65	130			
1,1,2,2-Tetrachloroethane	0.0238	0.00100	0.0232	0	103	65	130			
1,1,2-Trichloroethane	0.0221	0.00100	0.0232	0	95.3	75	125			
1,1-Dichloroethane	0.0219	0.00100	0.0232	0	94.5	70	135			
1,1-Dichloroethene	0.0217	0.00100	0.0232	0	93.5	70	130			
1,1-Dichloropropene	0.0221	0.00100	0.0232	0	95.4	75	130			
1,2,3-Trichlorobenzene	0.0242	0.00500	0.0232	0	104	55	140			
1,2,3-Trichloropropane	0.0227	0.00100	0.0232	0	97.8	75	125			
1,2,4-Trichlorobenzene	0.0234	0.00500	0.0232	0	101	65	135			
1,2,4-Trimethylbenzene	0.0239	0.00500	0.0232	0	103	75	130			
1,2-Dibromo-3-chloropropane	0.0241	0.0100	0.0232	0	104	50	130			
1,2-Dibromoethane	0.0233	0.00100	0.0232	0	100	80	120			
1,2-Dichlorobenzene	0.0233	0.00100	0.0232	0	101	70	120			
1,2-Dichloroethane	0.0219	0.00100	0.0232	0	94.4	70	130			
1,2-Dichloropropane	0.0223	0.00100	0.0232	0	96.2	75	125			
1,3,5-Trimethylbenzene	0.0235	0.00500	0.0232	0	101	75	130			
1,3-Dichlorobenzene	0.0232	0.00100	0.0232	0	100	75	125			
1,3-Dichloropropane	0.0228	0.00100	0.0232	0	98.4	75	125			
1,4-Dichloro-2-butene	0.0235	0.00200	0.0232	0	101	50	150			
1,4-Dichlorobenzene	0.0232	0.00100	0.0232	0	99.9	75	125			
2,2-Dichloropropane	0.0237	0.00100	0.0232	0	102	70	135			
2-Butanone	0.0237	0.0150	0.0232	0	102	30	150			
2-Chloroethylvinylether	0.0221	0.0150	0.0232	0	95.4	50	150			
2-Chlorotoluene	0.0232	0.00100	0.0232	0	99.9	75	125			
2-Hexanone	0.0251	0.0150	0.0232	0	108	55	130			
4-Chlorotoluene	0.0234	0.00100	0.0232	0	101	75	130			
4-Methyl-2-pentanone	0.0247	0.0150	0.0232	0	106	60	135			
Acetone	0.0252	0.0150	0.0232	0	109	40	140			
Acrylonitrile	0.0459	0.00300	0.0464	0	99.0	50	150			
Benzene	0.0222	0.00100	0.0232	0	95.6	80	120			
Bromobenzene	0.0232	0.00100	0.0232	0	99.9	75	125			
Bromochloromethane	0.0230	0.00100	0.0232	0	99.3	65	130			
Bromodichloromethane	0.0222	0.00100	0.0232	0	95.7	75	120			
Bromoform	0.0231	0.00100	0.0232	0	99.6	70	130			
Bromomethane	0.0168	0.00100	0.0232	0	72.6	30	145			
Carbon disulfide	0.0211	0.0150	0.0232	0	91.0	35	160			
Carbon tetrachloride	0.0222	0.00100	0.0232	0	95.7	65	140			
Chlorobenzene	0.0228	0.00100	0.0232	0	98.3	80	120			
Chloroethane	0.0217	0.00100	0.0232	0	93.5	60	135			

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS7\_120827A**

Sample ID: <b>LCS-53517</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>LCS</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 11:14:00 AM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	0.0219	0.00100	0.0232	0	94.5	65	135			
Chloromethane	0.0195	0.00100	0.0232	0	83.9	40	125			
cis-1,2-Dichloroethene	0.0222	0.00100	0.0232	0	95.6	70	125			
cis-1,3-Dichloropropene	0.0225	0.00100	0.0232	0	97.1	70	130			
Dibromochloromethane	0.0233	0.00100	0.0232	0	100	60	135			
Dibromomethane	0.0223	0.00100	0.0232	0	96.1	75	125			
Dichlorodifluoromethane	0.0199	0.00100	0.0232	0	85.6	30	155			
Ethylbenzene	0.0228	0.00100	0.0232	0	98.4	75	125			
Iodomethane	0.0186	0.0150	0.0232	0	80.3	50	150			
Isopropylbenzene	0.0238	0.00100	0.0232	0	103	75	125			
m,p-Xylene	0.0458	0.00200	0.0464	0	98.8	75	130			
Methyl tert-butyl ether	0.0229	0.00100	0.0232	0	98.7	65	125			
Methylene chloride	0.0206	0.00250	0.0232	0	88.9	55	140			
n-Butylbenzene	0.0244	0.00100	0.0232	0	105	70	135			
n-Propylbenzene	0.0236	0.00100	0.0232	0	102	70	130			
o-Xylene	0.0235	0.00100	0.0232	0	101	80	120			
p-Isopropyltoluene	0.0239	0.00100	0.0232	0	103	75	130			
sec-Butylbenzene	0.0239	0.00100	0.0232	0	103	70	125			
Styrene	0.0234	0.00100	0.0232	0	101	65	135			
tert-Butylbenzene	0.0235	0.00100	0.0232	0	101	70	130			
Tetrachloroethene	0.0228	0.00200	0.0232	0	98.4	45	150			
Toluene	0.0220	0.00200	0.0232	0	94.7	75	120			
trans-1,2-Dichloroethene	0.0217	0.00100	0.0232	0	93.4	60	140			
trans-1,3-Dichloropropene	0.0226	0.00100	0.0232	0	97.2	55	140			
Trichloroethene	0.0217	0.00200	0.0232	0	93.4	70	125			
Trichlorofluoromethane	0.0213	0.00100	0.0232	0	91.8	60	145			
Vinyl chloride	0.0214	0.00100	0.0232	0	92.3	50	145			
Surr: 1,2-Dichloroethane-d4	202		200.0		101	70	120			
Surr: 4-Bromofluorobenzene	200		200.0		99.8	75	120			
Surr: Dibromofluoromethane	199		200.0		99.7	85	115			
Surr: Toluene-d8	203		200.0		101	85	120			

Sample ID: <b>MB-53517</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>MBLK</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 12:03:00 PM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.000200	0.00100								
1,1,1-Trichloroethane	<0.000200	0.00100								
1,1,2,2-Tetrachloroethane	<0.000200	0.00100								
1,1,2-Trichloroethane	<0.000200	0.00100								
1,1-Dichloroethane	<0.000200	0.00100								

**Qualifiers:**

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_120827A

Sample ID: <b>MB-53517</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>MBLK</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 12:03:00 PM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	<0.000200	0.00100								
1,1-Dichloropropene	<0.000200	0.00100								
1,2,3-Trichlorobenzene	<0.00150	0.00500								
1,2,3-Trichloropropane	<0.000300	0.00100								
1,2,4-Trichlorobenzene	<0.00150	0.00500								
1,2,4-Trimethylbenzene	<0.00150	0.00500								
1,2-Dibromo-3-chloropropane	<0.00300	0.0100								
1,2-Dibromoethane	<0.000200	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,2-Dichloropropane	<0.000200	0.00100								
1,3,5-Trimethylbenzene	<0.00150	0.00500								
1,3-Dichlorobenzene	<0.000300	0.00100								
1,3-Dichloropropane	<0.000200	0.00100								
1,4-Dichloro-2-butene	<0.00200	0.00200								
1,4-Dichlorobenzene	<0.000300	0.00100								
2,2-Dichloropropane	<0.000200	0.00100								
2-Butanone	<0.00500	0.0150								
2-Chloroethylvinylether	<0.00500	0.0150								
2-Chlorotoluene	<0.000300	0.00100								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.000300	0.00100								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	<0.00500	0.0150								
Acrylonitrile	<0.00100	0.00300								
Benzene	<0.000200	0.00100								
Bromobenzene	<0.000200	0.00100								
Bromochloromethane	<0.000200	0.00100								
Bromodichloromethane	<0.000200	0.00100								
Bromoform	<0.000200	0.00100								
Bromomethane	<0.000300	0.00100								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.000200	0.00100								
Chlorobenzene	<0.000200	0.00100								
Chloroethane	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Chloromethane	<0.000300	0.00100								
cis-1,2-Dichloroethene	<0.000200	0.00100								
cis-1,3-Dichloropropene	<0.000200	0.00100								
Dibromochloromethane	<0.000200	0.00100								
Dibromomethane	<0.000200	0.00100								

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS7\_120827A**

Sample ID: <b>MB-53517</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>MBLK</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 12:03:00 PM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	<0.000200	0.00100								
Ethylbenzene	<0.000300	0.00100								
Iodomethane	<0.00500	0.0150								
Isopropylbenzene	<0.000200	0.00100								
m,p-Xylene	<0.000600	0.00200								
Methyl tert-butyl ether	<0.000300	0.00100								
Methylene chloride	<0.00250	0.00250								
n-Butylbenzene	<0.000300	0.00100								
n-Propylbenzene	<0.000300	0.00100								
o-Xylene	<0.000300	0.00100								
p-Isopropyltoluene	<0.000300	0.00100								
sec-Butylbenzene	<0.000300	0.00100								
Styrene	<0.000200	0.00100								
tert-Butylbenzene	<0.000300	0.00100								
Tetrachloroethene	<0.000600	0.00200								
Toluene	<0.000600	0.00200								
trans-1,2-Dichloroethene	<0.000200	0.00100								
trans-1,3-Dichloropropene	<0.000200	0.00100								
Trichloroethene	<0.000600	0.00200								
Trichlorofluoromethane	<0.000200	0.00100								
Vinyl chloride	<0.000100	0.00100								
Surr: 1,2-Dichloroethane-d4	205		200.0		102	70	120			
Surr: 4-Bromofluorobenzene	203		200.0		102	75	120			
Surr: Dibromofluoromethane	201		200.0		100	85	115			
Surr: Toluene-d8	202		200.0		101	85	120			

Sample ID: <b>1208206-01AMS</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>MS</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 3:17:00 PM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0256	0.00100	0.0232	0	111	80	130			
1,1,1-Trichloroethane	0.0248	0.00100	0.0232	0	107	65	130			
1,1,2,2-Tetrachloroethane	0.0281	0.00100	0.0232	0	121	65	130			
1,1,2-Trichloroethane	0.0258	0.00100	0.0232	0	111	75	125			
1,1-Dichloroethane	0.0246	0.00100	0.0232	0	106	70	135			
1,1-Dichloroethene	0.0241	0.00100	0.0232	0	104	70	130			
1,1-Dichloropropene	0.0244	0.00100	0.0232	0	105	75	130			
1,2,3-Trichlorobenzene	0.0225	0.00500	0.0232	0	97.0	55	140			
1,2,3-Trichloropropane	0.0263	0.00100	0.0232	0	113	75	125			
1,2,4-Trichlorobenzene	0.0227	0.00500	0.0232	0	98.0	65	135			
1,2,4-Trimethylbenzene	0.0259	0.00500	0.0232	0	112	75	130			

**Qualifiers:**

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_120827A

Sample ID: <b>1208206-01AMS</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>MS</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 3:17:00 PM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.0259	0.0100	0.0232	0	112	50	130			
1,2-Dibromoethane	0.0264	0.00100	0.0232	0	114	80	120			
1,2-Dichlorobenzene	0.0258	0.00100	0.0232	0	111	70	120			
1,2-Dichloroethane	0.0258	0.00100	0.0232	0	111	70	130			
1,2-Dichloropropane	0.0251	0.00100	0.0232	0	108	75	125			
1,3,5-Trimethylbenzene	0.0260	0.00500	0.0232	0	112	75	130			
1,3-Dichlorobenzene	0.0254	0.00100	0.0232	0	109	75	125			
1,3-Dichloropropane	0.0261	0.00100	0.0232	0	112	75	125			
1,4-Dichloro-2-butene	0.0276	0.00200	0.0232	0	119	50	150			
1,4-Dichlorobenzene	0.0255	0.00100	0.0232	0	110	75	125			
2,2-Dichloropropane	0.0253	0.00100	0.0232	0	109	70	135			
2-Butanone	0.0233	0.0150	0.0232	0	101	30	150			
2-Chloroethylvinylether	<0.00500	0.0150	0.0232	0	0	50	150			S
2-Chlorotoluene	0.0259	0.00100	0.0232	0	112	75	125			
2-Hexanone	0.0245	0.0150	0.0232	0	106	55	130			
4-Chlorotoluene	0.0258	0.00100	0.0232	0	111	75	130			
4-Methyl-2-pentanone	0.0243	0.0150	0.0232	0	105	60	135			
Acetone	0.0251	0.0150	0.0232	0	108	40	140			
Acrylonitrile	0.0545	0.00300	0.0464	0	117	50	150			
Benzene	0.0248	0.00100	0.0232	0	107	80	120			
Bromobenzene	0.0257	0.00100	0.0232	0	111	75	125			
Bromochloromethane	0.0252	0.00100	0.0232	0	109	65	130			
Bromodichloromethane	0.0258	0.00100	0.0232	0	111	75	120			
Bromoform	0.0260	0.00100	0.0232	0	112	70	130			
Bromomethane	0.0181	0.00100	0.0232	0	78.1	30	145			
Carbon disulfide	0.0223	0.0150	0.0232	0	96.0	35	160			
Carbon tetrachloride	0.0247	0.00100	0.0232	0	107	65	140			
Chlorobenzene	0.0255	0.00100	0.0232	0	110	80	120			
Chloroethane	0.0250	0.00100	0.0232	0	108	60	135			
Chloroform	0.0249	0.00100	0.0232	0	107	65	135			
Chloromethane	0.0226	0.00100	0.0232	0	97.2	40	125			
cis-1,2-Dichloroethene	0.0261	0.00100	0.0232	0	112	70	125			
cis-1,3-Dichloropropene	0.0247	0.00100	0.0232	0	106	70	130			
Dibromochloromethane	0.0261	0.00100	0.0232	0	113	60	135			
Dibromomethane	0.0260	0.00100	0.0232	0	112	75	125			
Dichlorodifluoromethane	0.0221	0.00100	0.0232	0	95.3	30	155			
Ethylbenzene	0.0250	0.00100	0.0232	0	108	75	125			
Iodomethane	0.0178	0.0150	0.0232	0	76.6	50	150			
Isopropylbenzene	0.0258	0.00100	0.0232	0	111	75	125			
m,p-Xylene	0.0503	0.00200	0.0464	0	108	75	130			
Methyl tert-butyl ether	0.0256	0.00100	0.0232	0	110	65	125			

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS7\_120827A**

Sample ID: <b>1208206-01AMS</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>MS</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 3:17:00 PM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene chloride	0.0240	0.00250	0.0232	0	103	55	140			
n-Butylbenzene	0.0255	0.00100	0.0232	0	110	70	135			
n-Propylbenzene	0.0259	0.00100	0.0232	0	112	70	130			
o-Xylene	0.0260	0.00100	0.0232	0	112	80	120			
p-Isopropyltoluene	0.0252	0.00100	0.0232	0	109	75	130			
sec-Butylbenzene	0.0254	0.00100	0.0232	0	109	70	125			
Styrene	0.0249	0.00100	0.0232	0	107	65	135			
tert-Butylbenzene	0.0256	0.00100	0.0232	0	110	70	130			
Tetrachloroethene	0.0247	0.00200	0.0232	0	106	45	150			
Toluene	0.0249	0.00200	0.0232	0	107	75	120			
trans-1,2-Dichloroethene	0.0242	0.00100	0.0232	0	104	60	140			
trans-1,3-Dichloropropene	0.0253	0.00100	0.0232	0	109	55	140			
Trichloroethene	0.0243	0.00200	0.0232	0	105	70	125			
Trichlorofluoromethane	0.0247	0.00100	0.0232	0	106	60	145			
Vinyl chloride	0.0238	0.00100	0.0232	0	103	50	145			
Surr: 1,2-Dichloroethane-d4	208		200.0		104	70	120			
Surr: 4-Bromofluorobenzene	202		200.0		101	75	120			
Surr: Dibromofluoromethane	201		200.0		100	85	115			
Surr: Toluene-d8	202		200.0		101	85	120			

Sample ID: <b>1208206-01AMSD</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>MSD</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 3:42:00 PM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0218	0.00100	0.0232	0	94.1	80	130	16.1	30	
1,1,1-Trichloroethane	0.0215	0.00100	0.0232	0	92.5	65	130	14.4	30	
1,1,2,2-Tetrachloroethane	0.0231	0.00100	0.0232	0	99.7	65	130	19.4	30	
1,1,2-Trichloroethane	0.0216	0.00100	0.0232	0	93.1	75	125	17.6	30	
1,1-Dichloroethane	0.0216	0.00100	0.0232	0	93.2	70	135	13.0	30	
1,1-Dichloroethene	0.0213	0.00100	0.0232	0	91.9	70	130	12.2	30	
1,1-Dichloropropene	0.0209	0.00100	0.0232	0	90.3	75	130	15.3	30	
1,2,3-Trichlorobenzene	0.0205	0.00500	0.0232	0	88.3	55	140	9.44	30	
1,2,3-Trichloropropane	0.0221	0.00100	0.0232	0	95.1	75	125	17.6	30	
1,2,4-Trichlorobenzene	0.0198	0.00500	0.0232	0	85.5	65	135	13.6	30	
1,2,4-Trimethylbenzene	0.0226	0.00500	0.0232	0	97.2	75	130	13.9	30	
1,2-Dibromo-3-chloropropane	0.0226	0.0100	0.0232	0	97.2	50	130	13.9	30	
1,2-Dibromoethane	0.0229	0.00100	0.0232	0	98.7	80	120	14.3	30	
1,2-Dichlorobenzene	0.0223	0.00100	0.0232	0	96.2	70	120	14.5	30	
1,2-Dichloroethane	0.0218	0.00100	0.0232	0	94.1	70	130	16.6	30	
1,2-Dichloropropane	0.0214	0.00100	0.0232	0	92.2	75	125	16.0	30	
1,3,5-Trimethylbenzene	0.0224	0.00500	0.0232	0	96.4	75	130	15.1	30	

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS7\_120827A**

Sample ID: <b>1208206-01AMSD</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>MSD</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 3:42:00 PM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.0218	0.00100	0.0232	0	94.1	75	125	15.0	30	
1,3-Dichloropropane	0.0226	0.00100	0.0232	0	97.4	75	125	14.3	30	
1,4-Dichloro-2-butene	0.0230	0.00200	0.0232	0	99.0	50	150	18.3	30	
1,4-Dichlorobenzene	0.0221	0.00100	0.0232	0	95.3	75	125	14.4	30	
2,2-Dichloropropane	0.0211	0.00100	0.0232	0	90.8	70	135	18.1	30	
2-Butanone	0.0229	0.0150	0.0232	0	98.8	30	150	1.82	30	
2-Chloroethylvinylether	<0.00500	0.0150	0.0232	0	0	50	150	0	30	S
2-Chlorotoluene	0.0221	0.00100	0.0232	0	95.4	75	125	15.6	30	
2-Hexanone	0.0234	0.0150	0.0232	0	101	55	130	4.46	30	
4-Chlorotoluene	0.0223	0.00100	0.0232	0	95.9	75	130	14.6	30	
4-Methyl-2-pentanone	0.0232	0.0150	0.0232	0	100	60	135	4.80	30	
Acetone	0.0225	0.0150	0.0232	0	96.9	40	140	10.9	30	
Acrylonitrile	0.0461	0.00300	0.0464	0	99.4	50	150	16.7	30	
Benzene	0.0216	0.00100	0.0232	0	92.9	80	120	14.2	30	
Bromobenzene	0.0221	0.00100	0.0232	0	95.4	75	125	15.0	30	
Bromochloromethane	0.0221	0.00100	0.0232	0	95.1	65	130	13.4	30	
Bromodichloromethane	0.0219	0.00100	0.0232	0	94.3	75	120	16.5	30	
Bromoform	0.0222	0.00100	0.0232	0	95.7	70	130	15.6	30	
Bromomethane	0.0168	0.00100	0.0232	0	72.3	30	145	7.79	30	
Carbon disulfide	0.0211	0.0150	0.0232	0	91.0	35	160	5.35	30	
Carbon tetrachloride	0.0212	0.00100	0.0232	0	91.4	65	140	15.4	30	
Chlorobenzene	0.0219	0.00100	0.0232	0	94.4	80	120	15.3	30	
Chloroethane	0.0219	0.00100	0.0232	0	94.3	60	135	13.2	30	
Chloroform	0.0215	0.00100	0.0232	0	92.8	65	135	14.4	30	
Chloromethane	0.0197	0.00100	0.0232	0	85.0	40	125	13.4	30	
cis-1,2-Dichloroethene	0.0223	0.00100	0.0232	0	96.1	70	125	15.6	30	
cis-1,3-Dichloropropene	0.0212	0.00100	0.0232	0	91.4	70	130	15.1	30	
Dibromochloromethane	0.0225	0.00100	0.0232	0	96.9	60	135	15.1	30	
Dibromomethane	0.0226	0.00100	0.0232	0	97.3	75	125	13.9	30	
Dichlorodifluoromethane	0.0190	0.00100	0.0232	0	82.0	30	155	15.0	30	
Ethylbenzene	0.0218	0.00100	0.0232	0	94.1	75	125	13.6	30	
Iodomethane	0.0186	0.0150	0.0232	0	80.3	50	150	4.84	30	
Isopropylbenzene	0.0228	0.00100	0.0232	0	98.1	75	125	12.7	30	
m,p-Xylene	0.0444	0.00200	0.0464	0	95.7	75	130	12.5	30	
Methyl tert-butyl ether	0.0218	0.00100	0.0232	0	93.9	65	125	16.2	30	
Methylene chloride	0.0195	0.00250	0.0232	0	84.2	55	140	20.3	30	
n-Butylbenzene	0.0222	0.00100	0.0232	0	95.7	70	135	13.8	30	
n-Propylbenzene	0.0223	0.00100	0.0232	0	95.9	70	130	15.2	30	
o-Xylene	0.0227	0.00100	0.0232	0	97.7	80	120	13.7	30	
p-Isopropyltoluene	0.0220	0.00100	0.0232	0	94.7	75	130	13.9	30	
sec-Butylbenzene	0.0220	0.00100	0.0232	0	95.0	70	125	14.2	30	

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: GCMS7\_120827A**

Sample ID: <b>1208206-01AMSD</b>	Batch ID: <b>53517</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>MSD</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 3:42:00 PM</b>	Prep Date: <b>8/27/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Styrene	0.0220	0.00100	0.0232	0	94.7	65	135	12.6	30	
tert-Butylbenzene	0.0222	0.00100	0.0232	0	95.5	70	130	14.4	30	
Tetrachloroethene	0.0215	0.00200	0.0232	0	92.6	45	150	13.9	30	
Toluene	0.0212	0.00200	0.0232	0	91.3	75	120	16.1	30	
trans-1,2-Dichloroethene	0.0207	0.00100	0.0232	0	89.1	60	140	15.9	30	
trans-1,3-Dichloropropene	0.0213	0.00100	0.0232	0	91.9	55	140	17.2	30	
Trichloroethene	0.0209	0.00200	0.0232	0	90.0	70	125	15.3	30	
Trichlorofluoromethane	0.0215	0.00100	0.0232	0	92.8	60	145	13.5	30	
Vinyl chloride	0.0210	0.00100	0.0232	0	90.4	50	145	12.6	30	
Surr: 1,2-Dichloroethane-d4	206		200.0		103	70	120	0	0	
Surr: 4-Bromofluorobenzene	200		200.0		100	75	120	0	0	
Surr: Dibromofluoromethane	200		200.0		99.9	85	115	0	0	
Surr: Toluene-d8	203		200.0		101	85	120	0	0	

<p><b>Qualifiers:</b></p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_120827A

Sample ID: <b>ICV-120827</b>	Batch ID: <b>R62234</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>ICV</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 10:50:00 AM</b>	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0470	0.00100	0.0464	0	101	80	120			
1,1,1-Trichloroethane	0.0447	0.00100	0.0464	0	96.3	80	120			
1,1,2,2-Tetrachloroethane	0.0490	0.00100	0.0464	0	106	80	120			
1,1,2-Trichloroethane	0.0437	0.00100	0.0464	0	94.2	80	120			
1,1-Dichloroethane	0.0430	0.00100	0.0464	0	92.6	80	120			
1,1-Dichloroethene	0.0418	0.00100	0.0464	0	90.1	80	120			
1,1-Dichloropropene	0.0441	0.00100	0.0464	0	95.0	80	120			
1,2,3-Trichlorobenzene	0.0483	0.00500	0.0464	0	104	80	120			
1,2,3-Trichloropropane	0.0468	0.00100	0.0464	0	101	80	120			
1,2,4-Trichlorobenzene	0.0491	0.00500	0.0464	0	106	80	120			
1,2,4-Trimethylbenzene	0.0478	0.00500	0.0464	0	103	80	120			
1,2-Dibromo-3-chloropropane	0.0490	0.0100	0.0464	0	105	80	120			
1,2-Dibromoethane	0.0462	0.00100	0.0464	0	99.5	80	120			
1,2-Dichlorobenzene	0.0472	0.00100	0.0464	0	102	80	120			
1,2-Dichloroethane	0.0429	0.00100	0.0464	0	92.4	80	120			
1,2-Dichloropropane	0.0440	0.00100	0.0464	0	94.8	80	120			
1,3,5-Trimethylbenzene	0.0477	0.00500	0.0464	0	103	80	120			
1,3-Dichlorobenzene	0.0468	0.00100	0.0464	0	101	80	120			
1,3-Dichloropropane	0.0455	0.00100	0.0464	0	98.0	80	120			
1,4-Dichloro-2-butene	0.0491	0.00200	0.0464	0	106	80	120			
1,4-Dichlorobenzene	0.0464	0.00100	0.0464	0	99.9	80	120			
2,2-Dichloropropane	0.0467	0.00100	0.0464	0	101	80	120			
2-Butanone	0.0476	0.0150	0.0464	0	103	80	120			
2-Chloroethylvinylether	0.0469	0.0150	0.0464	0	101	80	120			
2-Chlorotoluene	0.0463	0.00100	0.0464	0	99.7	80	120			
2-Hexanone	0.0503	0.0150	0.0464	0	108	80	120			
4-Chlorotoluene	0.0462	0.00100	0.0464	0	99.5	80	120			
4-Methyl-2-pentanone	0.0492	0.0150	0.0464	0	106	80	120			
Acetone	0.0502	0.0150	0.0464	0	108	80	120			
Acrylonitrile	0.0934	0.00300	0.0928	0	101	60	140			
Benzene	0.0435	0.00100	0.0464	0	93.7	80	120			
Bromobenzene	0.0466	0.00100	0.0464	0	100	80	120			
Bromochloromethane	0.0457	0.00100	0.0464	0	98.4	80	120			
Bromodichloromethane	0.0440	0.00100	0.0464	0	94.7	80	120			
Bromoform	0.0476	0.00100	0.0464	0	103	80	120			
Bromomethane	0.0332	0.00100	0.0464	0	71.7	80	120			S
Carbon disulfide	0.0452	0.0150	0.0464	0	97.4	80	120			
Carbon tetrachloride	0.0440	0.00100	0.0464	0	94.7	80	120			
Chlorobenzene	0.0446	0.00100	0.0464	0	96.2	80	120			
Chloroethane	0.0393	0.00100	0.0464	0	84.7	80	120			
Chloroform	0.0428	0.00100	0.0464	0	92.2	80	120			

**Qualifiers:** B Analyte detected in the associated Method Blank      DF Dilution Factor  
J Analyte detected between MDL and RL      MDL Method Detection Limit  
ND Not Detected at the Method Detection Limit      R RPD outside accepted control limits  
RL Reporting Limit      S Spike Recovery outside control limits  
J Analyte detected between SDL and RL      N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_120827A

Sample ID: <b>ICV-120827</b>	Batch ID: <b>R62234</b>	TestNo: <b>SW8260C</b>	Units: <b>mg/L</b>
SampType: <b>ICV</b>	Run ID: <b>GCMS7_120827A</b>	Analysis Date: <b>8/27/2012 10:50:00 AM</b>	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloromethane	0.0394	0.00100	0.0464	0	84.9	80	120			
cis-1,2-Dichloroethene	0.0430	0.00100	0.0464	0	92.6	80	120			
cis-1,3-Dichloropropene	0.0453	0.00100	0.0464	0	97.6	80	120			
Dibromochloromethane	0.0460	0.00100	0.0464	0	99.1	80	120			
Dibromomethane	0.0445	0.00100	0.0464	0	95.9	80	120			
Dichlorodifluoromethane	0.0396	0.00100	0.0464	0	85.3	80	120			
Ethylbenzene	0.0455	0.00100	0.0464	0	98.0	80	120			
Iodomethane	0.0373	0.0150	0.0464	0	80.4	80	120			
Isopropylbenzene	0.0472	0.00100	0.0464	0	102	80	120			
m,p-Xylene	0.0912	0.00200	0.0928	0	98.2	80	120			
Methyl tert-butyl ether	0.0454	0.00100	0.0464	0	97.9	80	120			
Methylene chloride	0.0435	0.00250	0.0464	0	93.8	80	120			
n-Butylbenzene	0.0496	0.00100	0.0464	0	107	80	120			
n-Propylbenzene	0.0467	0.00100	0.0464	0	101	80	120			
o-Xylene	0.0465	0.00100	0.0464	0	100	80	120			
p-Isopropyltoluene	0.0486	0.00100	0.0464	0	105	80	120			
sec-Butylbenzene	0.0477	0.00100	0.0464	0	103	80	120			
Styrene	0.0466	0.00100	0.0464	0	101	80	120			
tert-Butylbenzene	0.0474	0.00100	0.0464	0	102	80	120			
Tetrachloroethene	0.0458	0.00200	0.0464	0	98.7	80	120			
Toluene	0.0434	0.00200	0.0464	0	93.5	80	120			
trans-1,2-Dichloroethene	0.0425	0.00100	0.0464	0	91.6	80	120			
trans-1,3-Dichloropropene	0.0458	0.00100	0.0464	0	98.6	80	120			
Trichloroethene	0.0434	0.00200	0.0464	0	93.5	80	120			
Trichlorofluoromethane	0.0441	0.00100	0.0464	0	95.0	80	120			
Vinyl chloride	0.0429	0.00100	0.0464	0	92.5	80	120			
Surr: 1,2-Dichloroethane-d4	198		200.0		99.2	70	120			
Surr: 4-Bromofluorobenzene	200		200.0		100	75	120			
Surr: Dibromofluoromethane	199		200.0		99.4	85	115			
Surr: Toluene-d8	203		200.0		102	85	120			

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: IC\_120822A**

The QC data in batch 53464 applies to the following samples: 1208206-01D, 1208206-02D, 1208206-03D

Sample ID: <b>LCS-53464</b>	Batch ID: <b>53464</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>							
SampType: <b>LCS</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 9:06:03 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	29.6	3.00	30.00	0	98.8	90	110			

Sample ID: <b>LCSD-53464</b>	Batch ID: <b>53464</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>							
SampType: <b>LCSD</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 9:17:40 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	29.6	3.00	30.00	0	98.5	90	110	0.207	20	

Sample ID: <b>MB-53464</b>	Batch ID: <b>53464</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>							
SampType: <b>MBLK</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 9:29:16 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	<1.00	3.00								

Sample ID: <b>1208206-01D MS</b>	Batch ID: <b>53464</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>							
SampType: <b>MS</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 10:28:33 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	1060	30.0	300.0	735.2	107	90	110			

Sample ID: <b>1208206-01D MSD</b>	Batch ID: <b>53464</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>							
SampType: <b>MSD</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 10:40:09 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	1050	30.0	300.0	735.2	106	90	110	0.299	20	

Sample ID: <b>1208207-01A MS</b>	Batch ID: <b>53464</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>							
SampType: <b>MS</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 12:25:52 PM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	790	30.0	300.0	471.0	106	90	110			

Sample ID: <b>1208207-01A MSD</b>	Batch ID: <b>53464</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>							
SampType: <b>MSD</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 12:37:28 PM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	795	30.0	300.0	471.0	108	90	110	0.607	20	

**Qualifiers:**

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: IC\_120822A**

Sample ID: <b>ICV-120822</b>	Batch ID: <b>R62141</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>
SampType: <b>ICV</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 8:52:38 AM</b>	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Sulfate	76.1	3.00	75.00	0	101	90	110			
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Sample ID: <b>CCV1-120822</b>	Batch ID: <b>R62141</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>
SampType: <b>CCV</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 11:41:14 AM</b>	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Sulfate	30.1	3.00	30.00	0	100	90	110			
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Sample ID: <b>CCV2-120822</b>	Batch ID: <b>R62141</b>	TestNo: <b>E300</b>	Units: <b>mg/L</b>
SampType: <b>CCV</b>	Run ID: <b>IC_120822A</b>	Analysis Date: <b>8/22/2012 2:13:21 PM</b>	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Sulfate	30.6	3.00	30.00	0	102	90	110			
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<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: TITRATOR\_120822A**

The QC data in batch 53466 applies to the following samples: 1208206-01D, 1208206-02D, 1208206-03D

Sample ID: <b>1208206-01D DUP</b>	Batch ID: <b>53466</b>	TestNo: <b>M4500-H+ B</b>	Units: <b>pH Units</b>							
SampType: <b>DUP</b>	Run ID: <b>TITRATOR_120822A</b>	Analysis Date: <b>8/22/2012 10:12:00 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.44	0	0	7.480				0.536	5	

<p><b>Qualifiers:</b></p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: TITRATOR\_120822A**

Sample ID: <b>ICV-120822</b>	Batch ID: <b>R62135</b>	TestNo: <b>M4500-H+ B</b>	Units: <b>pH Units</b>							
SampType: <b>ICV</b>	Run ID: <b>TITRATOR_120822A</b>	Analysis Date: <b>8/22/2012 10:08:00 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	9.99	0	10.00	0	99.9	99	101			

Sample ID: <b>CCV-120822</b>	Batch ID: <b>R62135</b>	TestNo: <b>M4500-H+ B</b>	Units: <b>pH Units</b>							
SampType: <b>CCV</b>	Run ID: <b>TITRATOR_120822A</b>	Analysis Date: <b>8/22/2012 10:16:00 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.02	0	7.000	0	100	97.1	102.9			

**Qualifiers:**

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: TITRATOR\_120822B**

The QC data in batch 53471 applies to the following samples: 1208206-01D, 1208206-02D, 1208206-03D

Sample ID: <b>LCS-53471</b>	Batch ID: <b>53471</b>	TestNo: <b>M2320 B</b>	Units: <b>mg/L</b>							
SampType: <b>LCS</b>	Run ID: <b>TITRATOR_120822B</b>	Analysis Date: <b>8/22/2012 10:45:00 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	52.2	20.0	50.00	0	104	74	129			

Sample ID: <b>MB-53471</b>	Batch ID: <b>53471</b>	TestNo: <b>M2320 B</b>	Units: <b>mg/L</b>							
SampType: <b>MBLK</b>	Run ID: <b>TITRATOR_120822B</b>	Analysis Date: <b>8/22/2012 10:47:00 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	<10.0	20.0								
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0								
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0								
Alkalinity, Total (As CaCO3)	<10.0	20.0								

Sample ID: <b>1208206-01D DUP</b>	Batch ID: <b>53471</b>	TestNo: <b>M2320 B</b>	Units: <b>mg/L</b>							
SampType: <b>DUP</b>	Run ID: <b>TITRATOR_120822B</b>	Analysis Date: <b>8/22/2012 10:54:00 AM</b>	Prep Date: <b>8/22/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	104	20.0	0	105.8				1.33	20	
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	104	20.0	0	105.8				1.33	20	

<p><b>Qualifiers:</b></p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: TITRATOR\_120822B**

Sample ID: <b>ICV-120822</b>	Batch ID: <b>R62136</b>	TestNo: <b>M2320 B</b>	Units: <b>mg/L</b>
SampType: <b>ICV</b>	Run ID: <b>TITRATOR_120822B</b>	Analysis Date: <b>8/22/2012 10:40:00 AM</b>	Prep Date: <b>8/22/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	41.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	60.5	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	98	102			

Sample ID: <b>CCV-120822</b>	Batch ID: <b>R62136</b>	TestNo: <b>M2320 B</b>	Units: <b>mg/L</b>
SampType: <b>CCV</b>	Run ID: <b>TITRATOR_120822B</b>	Analysis Date: <b>8/22/2012 11:10:00 AM</b>	Prep Date: <b>8/22/2012</b>

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	42.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	59.7	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	90	110			

<p><b>Qualifiers:</b></p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1208206  
**Project:** Rhodes Canyon

## ANALYTICAL QC SUMMARY REPORT

**RunID: WC\_120824A**

The QC data in batch 53521 applies to the following samples: 1208206-01D, 1208206-02D, 1208206-03D

Sample ID: <b>LCS-53521</b>	Batch ID: <b>53521</b>	TestNo: <b>M2540C</b>	Units: <b>mg/L</b>							
SampType: <b>LCS</b>	Run ID: <b>WC_120824A</b>	Analysis Date: <b>8/24/2012 5:40:00 PM</b>	Prep Date: <b>8/24/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		738	10.0	745.6	0	99.0	90	113		

Sample ID: <b>MB-53521</b>	Batch ID: <b>53521</b>	TestNo: <b>M2540C</b>	Units: <b>mg/L</b>							
SampType: <b>MBLK</b>	Run ID: <b>WC_120824A</b>	Analysis Date: <b>8/24/2012 5:40:00 PM</b>	Prep Date: <b>8/24/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		<10.0	10.0							

Sample ID: <b>1208206-01D-DUP</b>	Batch ID: <b>53521</b>	TestNo: <b>M2540C</b>	Units: <b>mg/L</b>							
SampType: <b>DUP</b>	Run ID: <b>WC_120824A</b>	Analysis Date: <b>8/24/2012 5:40:00 PM</b>	Prep Date: <b>8/24/2012</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		5000	50.0	0	5080			1.59	5	

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

**Lab Order:** 1208206  
**Client:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon

**Sequence Report****Run ID: GC4\_120823A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120823	----	M8015V	R62187	1	8/23/2012 11:37:39 AM		A
LCS-53499	----	M8015V	53499	1	8/23/2012 12:03:50 PM	8/23/2012 11:24:27 AM	A
MB-53499	----	M8015V	53499	1	8/23/2012 12:54:10 PM	8/23/2012 11:24:27 AM	A
1208206-01B	RCRC-0114-RMW-001-0812	M8015V	53499	1	8/23/2012 1:25:00 PM	8/23/2012 11:24:27 AM	A
1208206-02B	RCRC-0114-RMW-003-0812	M8015V	53499	1	8/23/2012 1:50:16 PM	8/23/2012 11:24:27 AM	A
1208206-03B	RCRC-0114-RMW-006-0812	M8015V	53499	1	8/23/2012 2:16:30 PM	8/23/2012 11:24:27 AM	A
1208206-01BMS	RCRC-0114-RMW-001-0812MS	M8015V	53499	1	8/23/2012 3:32:08 PM	8/23/2012 11:24:27 AM	A
1208206-01BMSD	RCRC-0114-RMW-001-	M8015V	53499	1	8/23/2012 3:57:44 PM	8/23/2012 11:24:27 AM	A
CCV1-120823	----	M8015V	R62187	1	8/23/2012 4:22:51 PM		A

**Run ID: GCMS7\_120827A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120827	----	SW8260C	R62234	1	8/27/2012 10:50:00 AM		A
LCS-53517	----	SW8260C	53517	1	8/27/2012 11:14:00 AM	8/27/2012 9:50:13 AM	A
MB-53517	----	SW8260C	53517	1	8/27/2012 12:03:00 PM	8/27/2012 9:50:13 AM	A
1208206-01A	RCRC-0114-RMW-001-0812	SW8260C	53517	1	8/27/2012 12:27:00 PM	8/27/2012 9:50:13 AM	A
1208206-02A	RCRC-0114-RMW-003-0812	SW8260C	53517	1	8/27/2012 12:52:00 PM	8/27/2012 9:50:13 AM	A
1208206-03A	RCRC-0114-RMW-006-0812	SW8260C	53517	1	8/27/2012 1:16:00 PM	8/27/2012 9:50:13 AM	A
1208206-04A	RCRC-0114-RMW-006-TB	SW8260C	53517	1	8/27/2012 1:40:00 PM	8/27/2012 9:50:13 AM	T
1208206-01AMS	RCRC-0114-RMW-001-0812MS	SW8260C	53517	1	8/27/2012 3:17:00 PM	8/27/2012 9:50:13 AM	A
1208206-01AMSD	RCRC-0114-RMW-001-	SW8260C	53517	1	8/27/2012 3:42:00 PM	8/27/2012 9:50:13 AM	A

**Run ID: GCMS9\_120828B**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
DFTPP-120828	----	SW8270C	R62279	1	8/28/2012 4:36:00 PM		A
ICV-120828	----	SW8270C	R62279	1	8/28/2012 4:54:00 PM		A
LCS-53545	----	SW8270C	53545	1	8/28/2012 6:26:00 PM	8/28/2012 6:54:00 AM	A
1208206-01EMS	RCRC-0114-RMW-001-0812MS	SW8270C	53545	1	8/28/2012 7:57:00 PM	8/28/2012 6:54:00 AM	A
1208206-01EMSD	RCRC-0114-RMW-001-	SW8270C	53545	1	8/28/2012 8:20:00 PM	8/28/2012 6:54:00 AM	A
MB-53545	----	SW8270C	53545	1	8/28/2012 10:39:00 PM	8/28/2012 6:54:00 AM	A
1208206-01E	RCRC-0114-RMW-001-0812	SW8270C	53545	1	8/29/2012 1:18:00 AM	8/28/2012 6:54:00 AM	A
1208206-02E	RCRC-0114-RMW-003-0812	SW8270C	53545	1	8/29/2012 1:41:00 AM	8/28/2012 6:54:00 AM	A
1208206-03E	RCRC-0114-RMW-006-0812	SW8270C	53545	1	8/29/2012 2:04:00 AM	8/28/2012 6:54:00 AM	A

**Lab Order:** 1208206  
**Client:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon

## Sequence Report

**Run ID: GCMS9\_120828C**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
DFTPP-120828	----	SW8270C	R62315	1	8/28/2012 4:36:00 PM		A
ICV-120828 APP9	----	SW8270C	R62315	1	8/28/2012 5:18:00 PM		A
LCS-53545	----	SW8270C	53545	1	8/28/2012 6:03:00 PM	8/28/2012 6:54:00 AM	A
1208206-01EMS	RCRC-0114-RMW-001-0812MS	SW8270C	53545	1	8/28/2012 7:13:00 PM	8/28/2012 6:54:00 AM	A
1208206-01EMSD	RCRC-0114-RMW-001-	SW8270C	53545	1	8/28/2012 7:35:00 PM	8/28/2012 6:54:00 AM	A
MB-53545	----	SW8270C	53545	1	8/28/2012 11:02:00 PM	8/28/2012 6:54:00 AM	A
1208206-01E	RCRC-0114-RMW-001-0812	SW8270C	53545	1	8/28/2012 11:25:00 PM	8/28/2012 6:54:00 AM	A
1208206-02E	RCRC-0114-RMW-003-0812	SW8270C	53545	1	8/28/2012 11:48:00 PM	8/28/2012 6:54:00 AM	A
1208206-03E	RCRC-0114-RMW-006-0812	SW8270C	53545	1	8/29/2012 12:10:00 AM	8/28/2012 6:54:00 AM	A

**Run ID: IC\_120822A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120822	----	E300	R62141	1	8/22/2012 8:52:38 AM		A
LCS-53464	----	E300	53464	1	8/22/2012 9:06:03 AM	8/22/2012 9:00:00 AM	A
LCSD-53464	----	E300	53464	1	8/22/2012 9:17:40 AM	8/22/2012 9:00:00 AM	A
MB-53464	----	E300	53464	1	8/22/2012 9:29:16 AM	8/22/2012 9:00:00 AM	A
1208206-01D	RCRC-0114-RMW-001-0812	E300	53464	10	8/22/2012 10:09:51 AM	8/22/2012 9:44:09 AM	A
1208206-01D MS	RCRC-0114-RMW-001-0812MS	E300	53464	10	8/22/2012 10:28:33 AM	8/22/2012 9:44:09 AM	A
1208206-01D MSD	RCRC-0114-RMW-001-	E300	53464	10	8/22/2012 10:40:09 AM	8/22/2012 9:44:09 AM	A
1208206-02D	RCRC-0114-RMW-003-0812	E300	53464	10	8/22/2012 10:51:46 AM	8/22/2012 9:44:09 AM	A
1208206-03D	RCRC-0114-RMW-006-0812	E300	53464	10	8/22/2012 11:03:22 AM	8/22/2012 9:44:09 AM	A
CCV1-120822	----	E300	R62141	1	8/22/2012 11:41:14 AM		A
1208207-01A MS	----	E300	53464	10	8/22/2012 12:25:52 PM	8/22/2012 9:44:09 AM	A
1208207-01A MSD	----	E300	53464	10	8/22/2012 12:37:28 PM	8/22/2012 9:44:09 AM	A
1208209-01A MS	----	E300	53464	1	8/22/2012 1:23:50 PM	8/22/2012 12:45:00 PM	A
1208209-01A MSD	----	E300	53464	1	8/22/2012 1:35:27 PM	8/22/2012 12:45:00 PM	A
CCV2-120822	----	E300	R62141	1	8/22/2012 2:13:21 PM		A

**Lab Order:** 1208206  
**Client:** Zia Engineering & Environmental  
**Project:** Rhodes Canyon

## Sequence Report

**Run ID: ICP-MS2\_120827B**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
BLANK STD 1	----	SW6020	R62245	1	8/27/2012 1:56:00 PM		A
1 & 20ppb std 2	----	SW6020	R62245	1	8/27/2012 2:02:00 PM		A
10 & 200ppb std 3	----	SW6020	R62245	1	8/27/2012 2:08:00 PM		A
250 & 5000ppb std 4	----	SW6020	R62245	1	8/27/2012 2:14:00 PM		A
500 & 10000ppb std 5	----	SW6020	R62245	1	8/27/2012 2:20:00 PM		A
2000 ppb std 6	----	SW6020	R62245	1	8/27/2012 2:26:00 PM		A
ICSA-120827	----	SW6020	R62245	1	8/27/2012 2:43:00 PM		A
ICSAB-120827	----	SW6020	R62245	1	8/27/2012 2:49:00 PM		A
LCVL-120827	----	SW6020A	R62245	1	8/27/2012 3:19:00 PM		A
ICV1-120827	----	SW6020	R62245	1	8/27/2012 3:29:00 PM		A
ICB1-120827	----	SW6020	R62245	1	8/27/2012 3:35:00 PM		A
CCV1-120827	----	SW6020	R62245	1	8/27/2012 5:34:00 PM		A
LCVL1-120827	----	SW6020A	R62245	1	8/27/2012 5:58:00 PM		A
CCB1-120827	----	SW6020	R62245	1	8/27/2012 6:10:00 PM		A
MB-53525	----	SW6020	53525	1	8/27/2012 6:16:00 PM	8/27/2012 8:55:47 AM	A
LCS-53525	----	SW6020	53525	1	8/27/2012 6:22:00 PM	8/27/2012 8:55:47 AM	A
LCSD-53525	----	SW6020	53525	1	8/27/2012 6:28:00 PM	8/27/2012 8:55:47 AM	A
1208206-01C	RCRC-0114-RMW-001-0812	SW6020	53525	1	8/27/2012 6:39:00 PM	8/27/2012 8:55:47 AM	A
1208206-01C SD	RCRC-0114-RMW-001-0812	SW6020	53525	5	8/27/2012 6:45:00 PM	8/27/2012 8:55:47 AM	A
1208206-02C	RCRC-0114-RMW-003-0812	SW6020	53525	1	8/27/2012 6:51:00 PM	8/27/2012 8:55:47 AM	A
1208206-03C	RCRC-0114-RMW-006-0812	SW6020	53525	1	8/27/2012 6:57:00 PM	8/27/2012 8:55:47 AM	A
1208206-01C PDS	RCRC-0114-RMW-001-0812	SW6020	53525	1	8/27/2012 7:15:00 PM	8/27/2012 8:55:47 AM	A
1208206-01C MS	RCRC-0114-RMW-001-0812MS	SW6020	53525	1	8/27/2012 7:21:00 PM	8/27/2012 8:55:47 AM	A
1208206-01C MSD	RCRC-0114-RMW-001-	SW6020	53525	1	8/27/2012 7:27:00 PM	8/27/2012 8:55:47 AM	A
CCV2-120827	----	SW6020	R62245	1	8/27/2012 7:44:00 PM		A
CCB2-120827	----	SW6020	R62245	1	8/27/2012 7:56:00 PM		A
LCVL2-120827	----	SW6020A	R62245	1	8/27/2012 8:08:00 PM		A

**Run ID: TITRATOR\_120822A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV2-120822	----	M4500-H+ B	R62135	1	8/22/2012 10:05:00 AM	8/22/2012 10:05:00 AM	A
ICV1-120822	----	M4500-H+ B	R62135	1	8/22/2012 10:06:00 AM	8/22/2012 10:06:00 AM	A
ICV-120822	----	M4500-H+ B	R62135	1	8/22/2012 10:08:00 AM	8/22/2012 10:08:00 AM	A
1208206-01D	RCRC-0114-RMW-001-0812	M4500-H+ B	53466	1	8/22/2012 10:10:00 AM	8/22/2012 9:45:00 AM	A
1208206-01D DUP	RCRC-0114-RMW-001-	M4500-H+ B	53466	1	8/22/2012 10:12:00 AM	8/22/2012 9:45:00 AM	A
1208206-02D	RCRC-0114-RMW-003-0812	M4500-H+ B	53466	1	8/22/2012 10:13:00 AM	8/22/2012 9:45:00 AM	A
1208206-03D	RCRC-0114-RMW-006-0812	M4500-H+ B	53466	1	8/22/2012 10:15:00 AM	8/22/2012 9:45:00 AM	A
CCV-120822	----	M4500-H+ B	R62135	1	8/22/2012 10:16:00 AM	8/22/2012 10:16:00 AM	A

Lab Order: 1208206  
 Client: Zia Engineering & Environmental  
 Project: Rhodes Canyon

## Sequence Report

### Run ID: TITRATOR\_120822B

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120822	----	M2320 B	R62136	1	8/22/2012 10:40:00 AM	8/22/2012 10:40:00 AM	A
LCS-53471	----	M2320 B	53471	1	8/22/2012 10:45:00 AM	8/22/2012 10:30:00 AM	A
MB-53471	----	M2320 B	53471	1	8/22/2012 10:47:00 AM	8/22/2012 10:30:00 AM	A
1208206-01D	RCRC-0114-RMW-001-0812	M2320 B	53471	1	8/22/2012 10:51:00 AM	8/22/2012 10:30:00 AM	A
1208206-01D DUP	RCRC-0114-RMW-001-	M2320 B	53471	1	8/22/2012 10:54:00 AM	8/22/2012 10:30:00 AM	A
1208206-02D	RCRC-0114-RMW-003-0812	M2320 B	53471	1	8/22/2012 10:59:00 AM	8/22/2012 10:30:00 AM	A
1208206-03D	RCRC-0114-RMW-006-0812	M2320 B	53471	1	8/22/2012 11:04:00 AM	8/22/2012 10:30:00 AM	A
CCV-120822	----	M2320 B	R62136	1	8/22/2012 11:10:00 AM	8/22/2012 11:10:00 AM	A

### Run ID: WC\_120824A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
LCS-53521	----	M2540C	53521	1	8/24/2012 5:40:00 PM	8/24/2012 5:40:00 PM	A
MB-53521	----	M2540C	53521	1	8/24/2012 5:40:00 PM	8/24/2012 5:40:00 PM	A
1208206-01D	RCRC-0114-RMW-001-0812	M2540C	53521	1	8/24/2012 5:40:00 PM	8/24/2012 5:40:00 PM	A
1208206-01D-DUP	RCRC-0114-RMW-001-	M2540C	53521	1	8/24/2012 5:40:00 PM	8/24/2012 5:40:00 PM	A
1208206-02D	RCRC-0114-RMW-003-0812	M2540C	53521	1	8/24/2012 5:40:00 PM	8/24/2012 5:40:00 PM	A
1208206-03D	RCRC-0114-RMW-006-0812	M2540C	53521	1	8/24/2012 5:40:00 PM	8/24/2012 5:40:00 PM	A

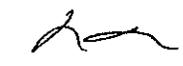
Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: GCMS9

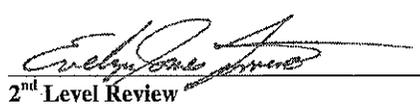
Data Folder: GCMS9 120828C

<u>Sample ID</u> ICAL, ICV, and CCV QC and Field Samples	<u>Analyte #1</u> Identification & Reason	<u>Analyte #2</u> Identification & Reason	<u>Analyte #3</u> Identification & Reason	<u>Analyte #4</u> Identification & Reason
ICV-120828	N/A			
LCS-53545	MI for dimethylphenethylamine because peak was partially integrated.			
1208206-01EMS	MI for dimethylphenethylamine because wrong peak was integrated.			
1208206-01EMSD	MI for dimethylphenethylamine because wrong peak was integrated.			
DCS-53545	MI for dimethylphenethylamine because of low Q-value.			

\*Manually Integrated = MI



Analyst \_\_\_\_\_ Date 9/4/2012



2<sup>nd</sup> Level Reviewer \_\_\_\_\_

Date 9/5/2012

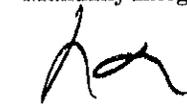
Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: GCMS9

Data Folder: GCMS9 120828B

<u>Sample ID</u> ICAL, ICV, and CCV QC and Field Samples	<u>Analyte #1</u> Identification & Reason	<u>Analyte #2</u> Identification & Reason	<u>Analyte #3</u> Identification & Reason	<u>Analyte #4</u> Identification & Reason
ICV-120828	N/A			
LCS-53545	MI for benzoic acid because wrong peak was integrated.			
1208206-01EMS	MI for benzoic acid because wrong peak was integrated.			
1208206-01EMSD	MI for benzoic acid because wrong peak was integrated.			

\*Manually Integrated = MI



Analyst

9/4/2012

Date



2<sup>nd</sup> Level Review

9/4/2012

Date

Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: GCMS#9

ICAL Folder: GCMS#9 SV120416B.CAL

<u>Sample ID</u>	<u>Analyte #1</u>	<u>Analyte #2</u>	<u>Analyte #3</u>	<u>Analyte #4</u>
ICAL POINT	Identification & Reason	Identification & Reason	Identification & Reason	Identification & Reason
CAL 1 0.04 PPM	M.I for 2,6-dinitrotoulene because wrong peak was integrated.	M.I for 2,4-dinitrotoulene because wrong peak was integrated.	MI for 1, 4-dichlorobenzene because wrong peak was integrated.	
CAL 2 0.2 PPM	MI for benzoic acid because peak was partially integrated.			
CAL 3 0.5 PPM	N/A			
CAL 4 1.0 PPM	MI for benzoic acid because peak was partially integrated.			
CAL 5 2.0 PPM	MI for benzoic acid because peak was partially integrated.			
CAL 6 3.0 PPM	MI for benzoic acid because peak was partially integrated.			
CAL 7 4.0 PPB	MI for benzoic acid because peak was partially integrated.			
CAL 8 5.0 PPB	MI for benzoic acid because peak was partially integrated.			
SSCV 2000 PPB	MI for benzoic acid because peak was partially integrated.			

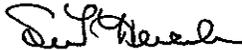
\*Manually Integrated = MI



Analyst

8/14/12

Date



2<sup>nd</sup> Level Review

8/14/12

Date